

# RECORD



Collection and field notes book

No. 12

(June 12, 1946 - July 11, 1946)

(25445-25525)

EXPLANATION

25445-25449	.....	Kota Island Airport
25450-25454	.....	Kota Island, Kona
25455-25459	.....	Highest hill on Kona near Kona
25460-25464	.....	West Kona, north end of Kona
25465-25469	.....	Kona, Kona
25470-25474	.....	North end of Kona
25475-25479	.....	East of Kona, Kona
25480-25484	.....	West Kona, Kona Island
25485-25489	.....	Description of Kona Island
25490-25494	.....	Kona, Kona (Valley of Kona)
25495-25499	.....	Kona, Kona
25500-25504	.....	Kona, Kona
25505-25509	.....	Kona, Kona
25510-25514	.....	Kona, Kona
25515-25519	.....	Kona, Kona
25520-25524	.....	Kona, Kona
25525-25529	.....	Kona, Kona
25530-25534	.....	Kona, Kona
25535-25539	.....	Kona, Kona
25540-25544	.....	Kona, Kona
25545-25549	.....	Kona, Kona
25550-25554	.....	Kona, Kona
25555-25559	.....	Kona, Kona
25560-25564	.....	Kona, Kona
25565-25569	.....	Kona, Kona
25570-25574	.....	Kona, Kona
25575-25579	.....	Kona, Kona
25580-25584	.....	Kona, Kona
25585-25589	.....	Kona, Kona
25590-25594	.....	Kona, Kona
25595-25599	.....	Kona, Kona
25600-25604	.....	Kona, Kona
25605-25609	.....	Kona, Kona
25610-25614	.....	Kona, Kona
25615-25619	.....	Kona, Kona
25620-25624	.....	Kona, Kona
25625-25629	.....	Kona, Kona
25630-25634	.....	Kona, Kona
25635-25639	.....	Kona, Kona
25640-25644	.....	Kona, Kona
25645-25649	.....	Kona, Kona
25650-25654	.....	Kona, Kona
25655-25659	.....	Kona, Kona
25660-25664	.....	Kona, Kona
25665-25669	.....	Kona, Kona
25670-25674	.....	Kona, Kona
25675-25679	.....	Kona, Kona
25680-25684	.....	Kona, Kona
25685-25689	.....	Kona, Kona
25690-25694	.....	Kona, Kona
25695-25699	.....	Kona, Kona
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25710-25714	.....	Kona, Kona
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25720-25724	.....	Kona, Kona
25725-25729	.....	Kona, Kona
25730-25734	.....	Kona, Kona
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25740-25744	.....	Kona, Kona
25745-25749	.....	Kona, Kona
25750-25754	.....	Kona, Kona
25755-25759	.....	Kona, Kona
25760-25764	.....	Kona, Kona
25765-25769	.....	Kona, Kona
25770-25774	.....	Kona, Kona
25775-25779	.....	Kona, Kona
25780-25784	.....	Kona, Kona
25785-25789	.....	Kona, Kona
25790-25794	.....	Kona, Kona
25795-25799	.....	Kona, Kona
25800-25804	.....	Kona, Kona
25805-25809	.....	Kona, Kona
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25815-25819	.....	Kona, Kona
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25825-25829	.....	Kona, Kona
25830-25834	.....	Kona, Kona
25835-25839	.....	Kona, Kona
25840-25844	.....	Kona, Kona
25845-25849	.....	Kona, Kona
25850-25854	.....	Kona, Kona
25855-25859	.....	Kona, Kona
25860-25864	.....	Kona, Kona
25865-25869	.....	Kona, Kona
25870-25874	.....	Kona, Kona
25875-25879	.....	Kona, Kona
25880-25884	.....	Kona, Kona
25885-25889	.....	Kona, Kona
25890-25894	.....	Kona, Kona
25895-25899	.....	Kona, Kona
25900-25904	.....	Kona, Kona
25905-25909	.....	Kona, Kona
25910-25914	.....	Kona, Kona
25915-25919	.....	Kona, Kona
25920-25924	.....	Kona, Kona
25925-25929	.....	Kona, Kona
25930-25934	.....	Kona, Kona
25935-25939	.....	Kona, Kona
25940-25944	.....	Kona, Kona
25945-25949	.....	Kona, Kona
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25955-25959	.....	Kona, Kona
25960-25964	.....	Kona, Kona
25965-25969	.....	Kona, Kona
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25980-25984	.....	Kona, Kona
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# Collection and Field Note Book

No. 15

(June 19, 1946 - July 11, 1946)

(24942 -25526)

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\* \* \*





*Miniature  
Account Book  
No. S 136*

UNIT RULED

Journal . . . . .  
Cash Book . . . . .  
Record (29 Lines) .  
Ledger, Double Entry  
Ledger, Single Entry

Made in 200 and 300 Pages

Made in U.S.A.

TO REORDER, SPECIFY NUMBER,  
RULING AND THICKNESS INDICATED  
ON BACKBONE OF THIS BOOK.



Collection number book  
of F.R. Fosberg #15

Nos. 24942 - 25526

Descriptive passages  
reographed for file 1974  
B. Decker



1946 - Marianas Is.

June 19 - Rota I. airport

limestone flat

24942

*Eragrostis*common, widespread  
on island

43

*Ispornoea*common, covering ground,  
widespread on island"föfgo" juice squeezed and used to  
cure cracked feet, both human and cows,  
June 19 Hanson, Rota I.low isthmus, formerly  
site of town, destroyed  
during war. Many  
~~plants~~ <sup>such as</sup> *Delonix*,  
*Acalypha wilkesiana*, etc.

44

*Polanisia icosaandra* <sup>cleome discosa</sup>common weed in old cultivated  
ground

45

*Acalypha indica* L.common weed in old cultivated  
ground

46

*Cyperus rotundus* L.dense patch in old  
cultivated ground

47

*Guettarda speciosa* L."páno" wood used as  
building material.

Rota

native names and information  
from John <sup>through</sup>  
Juan Perez as interpreter - several  
others incl. Commissioner Ben  
in conference.dense small tufts  
"tya-guan sabana"extensive prostrate  
vine, <sup>turning purple</sup> flowers  
blue, still open  
at about 11 a.m.

tips crushed and applied to cuts.

persisting.

limestone soil.

*Triphasia trifolia* Poir.  
dense thickets everywhere.herbage strong scented, flowers  
yellow. "mungus paluma"  
= bird food. seeds eaten by birds.  
styles whiteroots bearing  
tubers. "humatae" tubers  
chewed for toothache.  
clump of stumps  
sprouts around large  
stump, flowers white.



24993 *Pithecellobium dulce*  
common everywhere  
"kamachili" bark used for  
tanning; fruit eaten; leaves  
used crushed as emetic for drunk-  
enness, leaves chewed as remedy  
for toothache.

49 *Mucuna gigantea*  
common, climbing  
in trees  
"badyogu ngadzi" vines used  
medicinally to refresh insides and  
cut sections to supply drinking water.

50 *Cassytha filiformis* L.  
occasional, parasitic  
on bushes of various kinds.

51 *Lepturus repens* var. *subulatus* Fosc.  
common, covering ground

52 *Morinda citrifolia* L.  
common  
"lata" wood used as building material;  
root for dyeing clothes tan, fruit and  
root used medicinally, mixed  
with other plants in backache remedy.

53 *Messerschmidia argentea*  
occasional near beach  
"humi" wood used for diving goggles, leaves  
boiled and water used as remedy in case of poisoning  
from fish (tagabi, skipjack) which have eaten poi-  
sonous seaweed.

small tree 6 m. tall  
fls. greenish white,  
fruit pendent on  
long peduncle.  
pink edged and  
twisted when fresh

large vine, older  
stems woody,  
up to 2 cm. or more  
in diameter, nodes  
pendent.

leafless, stems  
yellow-green, flowers  
white, fruit immature  
"mai agai" included in a rheumatism  
remedy.

loose, spreading  
by runners. "lasagafini"  
used as cattle feed.

small tree 4 m. tall  
flowers white, fruit  
ripening unevenly,  
part of fruit sometimes  
white while apex is  
still flowering.

small tree 4 m. tall;  
leaves fleshy, silvery green;  
developed fruit fleshy.



24954 *Clerodendron*  
abundant, forming  
tangles between trees

55 *Albizia lebbek*  
common, possibly  
planted, but probably not.  
"kalaskas" (because of noise it makes.  
bark smelled to make one sneeze,  
wood used for construction.

56 *Melanolepis multiglandulosa*  
common in thickets  
"alum" young tips eaten; bark  
used medicinally "to refresh insides"

57 *Scaevola frutescens* (Mill.) Kr.  
common near beach

58 *Lophora tomentosa*  
occasional near beach

59 *Fimbristylis*  
very common, these plants  
from shade

60 *Premna obtusifolia* R. Br. (painted loc.)  
occasional  
"ab gan" wood used for firewood and  
construction, leaves medicinally for

61 *Psychotria marianensis*  
rare "aplu kati" wood used  
as building material, ripe fruit eaten by birds.

low scrambling shrub,  
up to 1.5 m. tall; flowers  
white with purple  
stamens. "lodugan" leaves very  
bitter, used for backache remedy.

Tree 5 m. tall; flowers  
fragrant, with stamens yellow  
toward base, green  
distally; pods rattling

small tree 4 m. tall,  
racemes of fruit  
pendent

rounded shrub 1 m.  
tall, flowers white.  
"nanaru" ripe fruit used for sore eyes.  
shrub 3 m. tall,  
fruit dry, brittle

dense clumps, leaves  
rather stiff  
"tutopu sabana" roots used medicinally,  
juice squeezed and used in baby's  
mouth for coated or cracked tongue.

shrub 2.5 m. tall,  
flowers green, aromatic.  
"refreshing insides or releasing heat."  
shrub 1 m. tall. fls.  
white; fruit red with green calyx.



24962 *Nostoc*common along shaded ~~trail~~ <sup>trail</sup>63 *Barleria cristata*

rare, persisting from cultivation

June 20, same.

64 *Portulaca oleracea* L.common around camp  
in cultivated ground  
"buden lagas" fed to pigs  
and boiled and eaten by  
humans.65 *Amaranthus spinosus* L.

common in disturbed places

66 *Grewia*

around dwellings

67 *Eragrostis amabilis* L.common especially on sandy  
disturbed soil.68 *Euphorbia hirta* L.very common in abandoned  
cultivated ground.partially dried when  
collected, collapsed.shrub, m. tall;  
flower ~~B~~ violet, corolla  
readily falling.plant prostrate,  
fleshy; flowers  
yellow, about 1 cm.  
across, open in  
morning, petals  
deeply emarginate;  
stamens 12-15.stems ascending  
"kilitis" young growth  
eaten by humans or  
fed to pigs.small tree 5 m. tall,  
flowers green, slightly  
fragrant.  
— spreading tuftsspreading ascending,  
arching at tips."golondrina" used with "abas" or  
*Psidium guajava* and *Phyllanthus*  
*niruri* for vaginal astringent



- 24969 *Phyllanthus niruri* det. G. L. Webster, 1955  
common everywhere in  
disturbed places

- 70 *Hippobroma longiflora*  
rare in abandoned cultivated  
ground.

- 71 *Chloris radiata*  
common everywhere  
in cultivated ground,  
roadsides, etc.

June 20 - n.w. coast  
of ~~main~~ west end of  
main part of Rota Island  
~~the~~ ~~border~~ of coral  
limestone separated  
by cliffs.

- 72 *Ficus*  
near base of cliff

- 73 *Ximenesia americana*  
thicket on second terrace

"maigo lalo" used with  
*Euphorbia hirta* as vaginal astringent  
also to relieve rectal itching  
leaves mashed and inserted.  
sap milky; flowers  
pure white.

sheaths strongly  
flattened.

on second terrace the  
soil is brown and very  
thin. The Japanese raked it  
up into windrows to get  
depth enough for sweet  
potatoes and Manihot.

spreading banyan  
type tree, fruits green.

low tangled shrub,  
1.5 m. tall, fruits  
yellow when ripe,  
fleshy, rather sour,  
not of especially good  
flavor. "pint" fruit eaten  
by children when ripe.



24974

*Manihot esculenta* Crantz  
persisting from cultivation

75 *Hirsutella citiformis* Spear (det. P. L. Leitz)  
on dead insect "Ropalides marginatus"

76 *Jasminum marianum* DC.  
twining in thicket on  
second terrace.

77 *Ficus tinctoria*  
in thicket on second terrace

78 *Caesalpinia* <sup>major (Medic)</sup> ~~sappan~~ <sup>Exell & Pandey</sup>  
thickets on cliffs

79 ~~Intsia~~ *Intsia bijuga*  
common on lower terrace

8  
80

1 *Bambusa vulgaris* Schrad. ex Wendl. det. F. A. McClure  
one clump seen on lower  
terrace, probably planted

shrub 1 m. tall, with  
tuberous roots, these  
with latex in the rind.  
flowers reddish  
green, somewhat fragrant.  
"mandioca" root  
eaten, not poisonous. (poisonous  
var. has velvety petioles).

scandent shrub,  
flowers white,  
fruit immature.

~~small~~ small tree 5 m. tall,  
ripe fruit deep yellow.  
"hodda" fruits eaten, machet  
and made into cakes during war.  
vine climbing through  
trees. "pacao" seeds crushed  
and used internally for medicine,  
very bitter. large branch with leaves  
tree 8 m. tall used to catch  
"ifit" wood used for flying foxes  
buildings, furniture, ties, etc.  
sap used as a black-colored paint.  
close clump, culms  
small, only 4 m. tall,  
sheaths hanging reversed  
by middle. "plao"



June 20 - same  
series, mostly unicates, collected  
at direction of John  
as vouchers for economic and  
ethnobotanic data. Can be  
correlated with <sup>other numbers with</sup> sets of duplicates  
is ~~often~~ in most cases.

24981 Two Terraces and cliffs between  
*Gymnosporia thompsonii* Merr.  
thicket on second terrace

82 *Hibiscus tiliaceus*  
thickets

83 *Abutilon indicum*  
roadsides

84 *Cassia*  
roadsides

90 *Cyperus*  
common everywhere

91 *Sida*  
general in disturbed

bush 2 m. tall, fruit  
reddish green. "lulubod"  
tips used as medicine  
wood for ladle handles.

bushy tree "pago"  
bark used for rope,  
wood used for rubbing  
to make fire.

"madbas" used medicinally  
to release mucus from  
lungs in asthma.

"amot tumaga"  
medicine for diarrhea  
accompanying teething  
in babies. juice sucked  
or boiled out.

"sasa" used medicinally  
to stop vaginal bleeding,  
also to cure irritation  
of eyes.

"isobiryan adamelong"  
tips eaten, also mashed and  
used as poultice for boils.



24992 *Casuarina equisetifolia*  
common on lower terrace

93 *Thespesia populnea*  
common on lower terrace

94 *Asclepias curassavica*  
general in disturbed places

95 *Barringtonia asiatica*  
common on lower terrace

96 *Ricinus communis*  
common on lower terrace

small tree

"gagu" wood used for building material, telephone poles, bullock carts, firewood etc. rots quickly in ground.

tree, "banalo"

"one of 5 plants mixed to use to cause abortion."

Wood used for building and fencing material.

"calyx greenish, corolla red, crown orange."

"floss aseracion"

thread made from fiber of seeds.

tree "puting" nuts and bark used to poison fish. bark boiled and used as remedy for poisoning by fish.

shrub 2 m. tall, "agaliga" oil from seeds used ~~as~~ as lubricant, as medicine and as hair oil. seeds strung on wire and burned for illumination.



24997 *Terminalia catappa*  
common

98 *Colubrina asiatica*  
common in thickets

99 *Callicarpus*  
thickets <sup>at base of</sup> cliffs

25000 *Davallia solida*  
climbing on trees on  
first terrace

01 *Psidium guajava*  
common in thickets

Tree "talissai" wood  
used as building material  
lasts longer in water  
than "ifil" (*Intsia bijuga*)  
fruit eaten, both pulp  
and nut.

scandent shrub.  
"gasoso" medicine to  
"release heat from inside"  
roots used as soap and  
shampoo during Japanese  
occupation.

shrub, flowers purple,  
fruit black. "hamlag"  
leaves used as medicine.

"pugua machena"  
leaves crushed and  
used for ~~the~~ medicine  
for sore tongue in babies,  
chewed in place of  
betel nut.

small tree or shrub.  
"apas" leaves boiled  
and used as vaginal  
astringent; fruit  
eaten. ~~the~~ tops (toy) made  
from wood.



25002 <sup>foetida var.</sup> *Hedyotis mariannensis*

03 *Phyllanthus*  
common on first terrace  
and cliffs

04 *Ficus*  
occasional

05 *Bilbilis mariannensis*  
cliffs, common

06  
thickets

sub-shrub, foetid when  
broken, fls. white;  
"pao dedo" medicine  
for "maipi" a disease  
believed to be contracted  
in the jungle and caused  
by anger of the spirits  
of the ancient Chamorroans.  
Characterized by pain,  
fever, swelling and delirium  
at night.

shrub up to 1.5 m.  
tall; "gaogao uehan"  
medicine for backache.  
banyan-type tree, fruit green.  
"numu" used mixed  
with vinegar for  
internal pains or to  
cure cuts. roots used  
as cordage. wood  
used as firewood in  
lime kilns.

shrub with white  
flowers. "gar sali"  
wood used for  
trunks and firewood.  
"anglao" (pronounced  
angilo) used for  
forage for cattle.



25007

- 08 shade at base of cliffs  
*Ipomoea alba* L.  
 common near beach

- 09 *Hernandia viridis*  
 common on lower terrace

- 10 *Pandanus fragrans*  
 common in forest

- 11 ~~*Occhosia*~~ *Occhosia oppositifolia*  
 common in woods

- 12 *Polypcias*  
 rare on lower terrace  
 in thickets

"sasa" not used.

"alalag" leaves used  
 as poultice to cure  
 backache, also as  
 cattle feed.

tree 3 m. tall, leaves  
 glossy, flowers  
 greenish.

"monnag" wood  
 used for building  
 material and canoes.

tree up to 5 m. tall.

"pahong" roots made  
 into rope. pulp not  
 eaten but nut  
 eaten, has good  
 flavor. going out to  
 gather and crack  
 these nuts is a  
 favorite pastime of  
 boys & girls on Sunday.  
 small tree. "fago"  
 wood used as building  
 material. nuts  
 eaten.

shrub 2 m. tall, ripe fruit  
 blue.

"pepigu" cattle feed.



25013 *Piper*  
woods in ravine on cliff

14

forest on cliff

15 *Pandanus tectorius*  
common in forest

16

in forest

17

weed in fields

18

*Deeringia amaranthoides*  
forest on cliffs

19

*Eugenia palumbis*  
forest on second terrace

shrub 1 m. tall

"~~the~~ *populus alba*"  
root used to cure  
gonorrhea.

shrub "sumag"

used medicinally.

wood used for axe handles,  
etc.

small tree, "~~truffa~~"

"caffo" or "kafu" leaves  
used in basketry.

fruit and nuts eaten.

~~juice~~ "katod" juice  
said to cause severe  
skin irritation and  
rash, but said

to be used to cure boils.

shrub "sadafu"

bark used for cordage.

"peshalan" root

used in mixture

"to refresh insides."

low shrub, fruit

red. "agatelong" wood

very flexible, used for  
axe handles, posts for  
bullock carts, etc.

fruit eaten.



25070

in forest

21 *Guamia saffordii*  
in forest on second terrace

22 *Euphorbia heterophylla*  
weed in abandoned field

23 *Pencaena glauca*  
common everywhere

24 *Calophyllum inophyllum*  
Japanese temple ground

4. "lalaha" wood  
very good for firewood  
trunks, etc., burns  
readily without  
smoke.

small tree "paipai"  
wood very flexible,  
used for handles for  
utensils, tongues for  
bull carts, building  
materials, etc.

bracts red at base  
"flore hagon"

latex irritating to skin.  
shrub 1-3 m. tall

wood "talntangan"  
wood used as firewood  
& building material.

seeds used during war  
as coffee substitute but  
caused loss of hair,  
leaves good pig feed.

Tree "derog" wood used  
for building material,  
bull-cart wheels,  
and boats. lasts well  
in water.



June 21 highest hill on island,  
near Sabana, Rota  
old excavations, eroded  
places and roadsides in  
soil of weathered volcanic tuff,  
generally grass covered,  
but with extensive  
growth of *Acacia confusa*.  
probably planted. 490 m. west

25025 *Cyperus*

eroded place

26 *Hyptis capitata* Jacq.

eroded place

27 *Cyperus*

eroded place

28 *Miscanthus <sup>floridulus</sup> japonicus*  
gregarious on open slopes

29 *Cyperus*

eroded place

30 *Pennisetum purpureum*  
roadsides, commonly  
planted and persisting  
everywhere

31 *Lycopodium cernuum*  
on walls of excavation

small tufts

erect herb 1 m. tall

large clump, leaves  
and bracts white  
beneath.

deep tangled masses,  
inflorescences roseate  
when young, spikes  
verticillate

small tufts

deep masses, 2 m.  
tall

pendent



- 25032 *Gleichenia linearis*  
common on banks of  
excavation
- 33 *Paspalum orbiculare*  
common on roadsides and  
floor of excavation,  
general on island
- 34 *Histiopteris incisa*  
~~common~~ on walls of excav-  
ation
- 35 *Beckmannia orientalis* L.  
banks and walls of excavation

June 21 3/4 mi. e. of Tabana  
Rota I. 450 m.

dense forest on makatea  
or dissected coral limestone  
forest mixed, *Elaeocarpus*,  
*Artocarpus*, *Hernandia*, etc.  
epiphytes abundant,  
underbrush sparse.

- 36 *Piper*  
common in undergrowth
- 37 *Polypodium*  
epiphytic, on tree trunks

other clumps seen  
much deeper.

isolated culms and small  
tufts.

rhizome erect.

shrub up to 1 m. tall,  
mature spikes red.  
root with only slight  
effect on tongue when chewed.  
rhizome buried in  
mass of roots, fibers,  
dead leaves, etc.



25038 *Ardisia*  
occasional

39 *Asplenium*  
epiphytic on tree trunks

40 *Asplenium*  
common, epiphytic on tree trunks

41 *Freycinetia*  
common -

42 *Asplenium nidus*  
very common, mostly  
epiphytic

43 ~~Phallus~~ *Claoxylon*  
common

44 *Dioscorea bulbifera*  
occasional

45 *Hernandia labyrintica* Truyana  
common in forest

small tree, fruits  
bright red, fleshy,  
spherical, pleasantly  
acid, in pendent  
racemes.

rhizome with licorice  
odor when cut.

wine climbing up  
tree trunks, leaves  
3-ranked, all seen sterile.  
rosettes with  
ascending leaves

tree 5 m. tall flowers  
whitish

wine, climbing  
on tree trunks

small tree 5 m. tall  
(others much larger)  
fls. & fruit pale green  
fruit inflated



75046 *Macaranga*  
common

47 *Elaeocarpus*  
common

48 *Eugenia*

49 *Laportea*?  
occasional

50 ~~Adiantum~~ *Andisia*  
occasional

(see  
25056)

June 21 - along n. coast  
4 mi. e. n.e. of Sonson  
coral flats, abandoned cultivated  
ground. 5 m.

51 *Polypodium scolopendrium*  
common on ground on  
coral

52 *Achyranthes*

53 *Pipturus argenteus*  
common

54 *Pipturus ~~obtus~~ argenteus*  
common

55 *Agave sisalana*  
persisting from cultivation

tree 10 m. tall, flowers  
greenish

large spreading  
tree, flowers white

tree, sterile

small tree - sap said to  
cause rash on skin.

fruit immature

fronds erect.

plant depressed  
branches and spikes erect.  
shrub 2 m. tall,  
fruit white, fleshy

shrub, fls. greenish

rosettes of leaves 1 m. long,  
inflorescence 4 m. tall, fls. erect.



June 21 - see after 25050

25056

*Boerlagiodendron*~~tree 10 m. tall branches~~  
rare in forestJune 22 - ~~for~~ Rota (densen)  
Rota I. 1-2 m.coral flats back of  
beach and beach  
between dissected  
fragments of low coral terraces

57

*Allophyllus*

thicket

58

*Deeringia* amaranth kinds  
thicket

59

*Triphasia trifolia*thicket shaded by trees  
very common

60

*Cyperus stipifolius javanicus*  
common in openings

61

*Hymenocallis littoralis*  
common in low places  
(also along top of beach)tree 10 m. tall, branches  
ending in large rosettes,  
infl. and fruits dark  
red. scarcely any  
odor when leaves or  
branches are broken.mixed strand trees,  
persisting cultivated  
trees, openings, bushy  
thickets etc.

bush 1 m. tall, fls. white.

scandent shrub,  
flowers whitish, fruit  
crimson red.bush 1.5 m. tall; flowers  
white, fragrant, petals  
recurved; ripe fruit  
red.

dense clump

plants ~~to~~ 1 - 1.5 m. tall,  
flowers white.



- 25062 *Thuarea involuta*  
~~top of~~ beach
- 63 *Phyllanthus*  
 top of beach, under trees
- 64 *Excoecaria agallocha*  
 top of beach
- 65 *Pemphis acidula*  
 on dissected coral remnants,  
~~common~~ abundant
- 66 *Leucaena glauca*  
 common in thickets
- 67 *Cassia occidentalis*  
 common in open places
- 68  
 occasional in open places  
 (abundant higher on island)
- 69 *Chrysopogon aciculatus*  
 common in openings
- 70 *Cenchrus ~~cerechinatus~~*  
 common in openings
- 71 *Dactyloctenium aegyptium*  
 common in disturbed places
- 72 *Bidens pilosa* L.  
 occasional, locally common

- forming a dense  
 soft ~~root~~ carpet  
 depressed shrub
- tree 7 m. tall, branches  
 drooping, lactiferous.  
 bush 1 m. tall,  
 flowers white.  
 leaves slightly acid-bitter  
 and astringent  
 shrub 1 m. tall
- herb 1 m. tall, flowers  
 yellow.
- bush 1 m. tall, flowers  
 pinkish
- forming a mat, tightly  
 adhering to ground,  
 scapes erect.
- long geniculate culms  
 spreading from crown  
 and rooting at nodes.  
 culms prostrate  
 to ascending, radiating  
 from crown.  
 heads yellow, discoid



25073 *Hibiscus tiliaceus*  
common in thickets  
and secondary woods

74 *Muntingia calabura*  
rare in thickets

75 *Citrus limon*  
persisting from cultivation

76 *Thespesia populnea*  
common

77 *Lida*  
common in openings

78 *Ipomoea*  
common everywhere  
in openings

79 *Passiflora foetida* var. *hispida* (Dc.)  
abundant everywhere

small tree, 6 m. tall,  
flowers pale yellow  
with maroon center,  
yellow turning reddish  
in afternoon  
(see 24982)

~~tree~~ tree 5 m. tall,  
branches ascending,  
appearing distichous,  
flowers white, ripe  
fruit <sup>plum</sup> pinkish.

tree 5 m. tall, lemons  
very large, almost  
smooth.

small tree 5 m. tall  
(others much larger)

gray bush 1 m. tall

prostrate vine,  
flowers blue, open  
in morning, ~~also~~ turning  
pink and closing in  
afternoon.

Killip

herbaceous vine  
tangled over everything,  
flowers white, lower  
half of corona filaments  
and hairs on corona disc  
purple.



1946 Marianas Is.

25030 *Abutilon indicum*

occasional

81 *Cyperus*

rare in excavated coral sand

June 22 - lower terrace  
east of Sonson, Rota82 *Dodonaea viscosa* L.  
common locally on  
coral flatJune 22 - slopes above  
As Malote,83 *Annona muricata*84 *Erythrina*85 *Elalostema*86 *Croix lachryma-jobi*

Rota

bush 1.5 m. tall, flowers  
yellow (see #24983)  
tufts, leaveserect shrub up to 3 m.  
tall, slender, branches  
strongly ascending  
fruit inflated mostly  
2-winged, occasionally  
3 in same cluster, pale  
green, not reddish.

stems fleshy

fruit first green,  
then blue-black,  
then pearl gray



June 22 same  
slopes of <sup>weathered</sup> volcanic breccia  
underlying limestone  
cliffs. slopes grass-  
covered, badly eroded  
in places, both by  
water and slippage,  
showing evidence of  
burning over. 250 m.

25087 *Myrtella benningensis*  
local on eroded place

78 *Sphenomeris*  
eroded places

89 *Fraxina*  
muddy seep

90 *Colocasia esculenta*  
planted in moist places

91 *Elephantopus scaber*  
common along trail

92 *Dryopteris gongilodius*?  
common

*Cyrtopodium cernuum*  
& *Gleichenia linearis*  
common on eroded places,  
*Miscanthus japonicus*  
dominant on slopes

dense bushy shrubs  
up to 0.7 m. tall, fls.  
white, fruit reddish  
black when ripe.

stipes red, panicle  
cathart.

erect stems sharply  
pentagonal.

leaves dull, with a  
bluish cast.



25093  
25093*Oryza sativa*in small muddy place  
above trail94 *Fimbristylis*  
occasional95 *Bidens pilosa* var. *minima*  
rare along trail96 *Scaevola frutescens* (Mill.) Kr.  
occasional97 *Heteropogon contortus*  
rare98 *Emilia sonchifolia*  
rare along trail99 *Cassia*  
rare along trail25100 *Rynchospora*  
occasional in eroded  
places01 *Eleocharis*  
~~in~~ muddy seeps02 *Synedrella nodiflora*  
disturbed place03 *Euphorbia*  
eroded places, occasional04 *Curculigo*  
eroded burned place  
common locally

panicle drooping

stiffly erect tufts.

heads with white  
rays.low shrub; flowers  
white, fruit white,  
fleshy.

flowers purple.

herb up to 1 m. tall,  
flowers yellow.  
slender tufts

flowers yellow

strictly erect, tip nodding,  
flowers white.  
flower yellow.



- 25/05 *Bidens glauco-gyne tenuifolia*  
eroded places, common locally
- 06 *Notholaena*  
eroded places, occasional
- 07 *Tacca*  
eroded place, seen only here
- 08 *Wikstroemia elliptica*  
eroded place, rare
- 09 *Geniostoma micranthum* var. *micranthum*  
eroded place, one plant seen

June 23 Sonson (Rota) Rota I.  
around mined town site

- 10 *Jatropha curcas*  
roadside
- 11 *Heliotropium*  
old field, abundant
- 12 *Ficus*

~~13 *Breynia*~~

- ~~hedge - *Maytenus thompsonii* Merr.~~
- 13 *Maytenus thompsonii* Merr.  
hedge row

- 14 *Ocotea oppositifolia*  
persisting from  
original vegetation in corner of  
grounds of camp.

heads yellow, radiate.

stem 1 m. tall, bracts  
blackish purple, perianth purplish  
distally

shrub 1 m. tall,  
flowers greenish yellow,  
berries red.  
(several plants represented)

shrub 1.5 m. tall,  
flowers white

small tree 5 m. tall.

plant gray-green,  
flowers white.

tree, fruit green  
~~shrub 2 m. tall~~

shrub 2 m. tall,

small tree 4 m. tall,  
flowers white, fruit  
yellow when ripe.



June 23 - n.w. coast of  
west end of island, about  
1 mi. n.e. of Sonson (Rota)  
strand forest at top of  
and back of beach,  
on lowest terrace and

25115 *Premna obtusifolia* R. Ben (pointed loc.)  
edge of opening

16 *Callicarpa*  
edge of opening

17 *Davallia*  
on lower part of cliff

18 *Hedyotis foetida* var. *marianensis*  
base of cliff and among rocks

19 *Flagellaria indica*  
common in edges of  
forest and thickets

20 *Mucuna urens*  
occasional in forest

21 *Bikbia*  
~~and~~ common on cliff,  
this plant among great  
rocks shaded by trees

cliffs back of terrace

shrub 2 m. tall;  
flowers pale green, aromatic;  
fruit immature.

shrub 1 m. tall,  
sparsely branched;  
flowers purple; inf  
fruit black.  
rhizomes creeping.

shrub 0.7 m. tall, woody,  
foetid when broken.  
flowers white; fruit  
green.  
scandent, slender

large vine climbing  
over trees, pods mostly  
on dead portions, pendent.  
shrub 2 m. tall,  
flowers white.



- 25122 *Procris pedunculata*  
epiphytic on tree trunks  
just back of beach
- 23 *Cyclophorus*  
~~epiphytic~~ epiphytic,  
common on branches  
and trunks of trees just  
back of beach
- 24 *Digitaria* <sup>*gaudichaudii* (Kunth) Ham.</sup> ~~*marianensis*~~  
common on rocky beach  
and base of cliffs
- 25 *Fleurya nuda*  
under edge of great rock
- 26 *Clerodendron*  
on base of cliff
- 27 *Claoxylon*  
forest, common
- 28 *Claoxylon*  
forest, common
- 29 *Hernandia*  
one of commonest trees  
in forest.

fronds thick, coriaceous

tufts, stiffly erect  
to spreading.

stems fleshy  
— no stinging hairs.  
scandent shrub  
flowers white with  
purple stamens and  
style.

small tree 4 m. tall  
perianth(?) accrescent,  
soft & spongy, ~~see~~ pale  
green, surrounding yellow  
fruit.

— small tree 4 m. tall,  
fls. pale greenish white  
— tree 10 m. tall, flowers  
white, fruit <sup>perigon</sup> inflated.  
~~perigon~~ white, ovate  
circular (not toothed or lipped)



- 25130 *Rhoeo discolor*  
escaped and well established  
locally at base of cliffs
- 25131 *Canthium odoratum* var. *tinianse*  
sloping face of great  
limestone boulder near  
edge of water
- 32 *Terminalia samoensis* Rech.  
sloping face of great  
limestone boulder  
near edge of water
- 33  
sloping face of great  
limestone boulder near  
edge of water
- 34 *Hedyotis albido-punctata*  
common on rocks near  
water
- 35 *Wedelia biflora* var. *canadensis* (Griseb.) Fock.  
rocky upper beach
- 36 *Psilotum nudum*  
~~for~~ rough perpendicular  
limestone face.
- 37 *Dryopteris*  
base of cliff, in shade

- leaves purple beneath,  
flowers white, filament  
pilose, petals 3, equal.  
— small shrub 0.5 m.  
5 m. tall, spreading, leaves  
pale beneath, fruit  
immature.
- 5 m. small shrub 0.5 m.  
tall, ripe fruit red,  
almost terete.
- 5 m. prostrate shrub
- 2 m. prostrate; leaves  
fleshy; flowers  
white, lobes ~~narrowly~~  
oblong-lanceolate.  
— prostrate, extensive,  
branches ascending;  
heads yellow.  
tips pendent.
- rhizome buried 2-3 cm.,  
prostrate.



25738

common along base of  
cliff in shade

39 *Nephrolepis*  
occasional on face of cliff

40 *Asplenium*  
occasional on face of cliff

June 23 - second terrace  
from top <sup>1 mi.</sup> east of Sabana  
Rota?

rain forest on gently  
sloping rough coral  
(makata)

41 *Hernandia palyurina* Tuyen  
common tree  
(flowers and developed fruits  
in same clusters)

42 *Fagraea* var *ludronica* Forst.  
rare tree, strangling  
a *Hernandia* tree. (but  
small tree observed  
growing in ground)

rhizome short, erect.

fronds pendent,

fronds arching

Tree 15 m. tall <sup>5</sup> dm. thick;  
flowers white, fruiting  
perigone inflated, slightly  
2-lobed, white.

tree 15 m. tall, evidently  
developed from seedling in  
crotch of *Hernandia*, large  
roots so surrounding  
trunk of *Hernandia* that  
it is difficult to distinguish  
them; flowers very fragrant,  
cream white, turning  
dull orange; fruit practically  
spherical, bright  
orange when ripe.



- 25143 *Alyxia*  
epiphytic in large tree
- 44  
abundant, epiphytic on  
tree trunks.
- 45 *Pipturus incanus*  
common in forest
- 46 *Pandanus*  
common in forest
- 47 *Guarnia saffordii*  
common in forest
- 48 *Clerodendron speciosissimum*  
persisting in tiny abandoned  
clearing; Japanese camp site.
- 49 *Solanum nigrum*  
tiny abandoned clearing
- 50 *Alyxia*  
tiny abandoned clearing
- 51  
epiphytic on tree trunk, rare.

- woody vine, buds  
and green fruits only,  
rarely fruiting.
- small tree, leaves  
dark green above;  
fruit very juicy, white,  
achene on surface.
- tree 4 m. tall, leaves  
spirally arranged,  
fruit not quite ripe.
- tree 4 m. tall, bushy,  
leaves dark green,  
fruits green, turning  
red, then black when  
ripe.
- herb 1 m. tall, flowers  
scarlet, fruit immature  
greenish black.
- herb up to 1 m. tall,  
flowers white, ripe  
fruit blue-black.
- semi-scandent shrub  
flowers dull salmon  
color.
- flower dull white.



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- 25152 *Pandanus*  
common in forest
- 53 *Laportea*?  
occasional in forest

- 54 ~~*Haplophragma*~~ *Belvisia spicata*  
rare, epiphytic on tree  
trunks

June 23 - coconut grove  
beyond phosphate mill,  
on road to As Malote

- open cultivated land
- 55 *Paspalum*
- 56 *Digitaria pruriens* var. *pruriens*
- 57 *Paspalum conjugatum*  
common generally  
except along coastal plain

June 24 - near the airstrip,  
near east end of Rota I.  
small patch of <sup>old</sup> woods  
in scrubby second-growth  
on terrace

- 58  
very abundant in scrub

Rota

61

Tree 5 m. tall, fruit  
still green.  
— small tree, twigs  
fleshy, leaves soft,  
not stinging.

— erect  
— spreading

shrub 3 m. tall, young  
leaves whitish from pubescence,  
flowers deep pink.



25159 *Ficus*  
not common in forest

60 *Randia cochinchinensis*  
~~*cochinchinensis*~~  
rare in forest

61 *Achyranthes aspera*  
edge of patch of woods

62 *Canthium*  
in edge of patch of woods

63 *Eugenia palumbis* Merr.  
in edge of patch of woods,  
rare.

see also p. 86

nos. 25212-25214

large spreading  
banyan, fruits yellow,  
of two sizes, one rarely  
~~many~~ several times as  
large as other.

tall slender tree 15  
m. tall, fruit dark  
red.

tangled herb 2 m.  
tall,

slender shrub 1.5  
m. tall, ripe fruit  
deep purplish red,  
~~quite to~~ more or less didymous  
subglobose, soft fleshy  
pericarp; flowers white.  
(differs significantly from  
*C. odoratum* in base of  
fruit, texture and color of  
fruit, smaller flowers.)

slender shrub 1 m. tall,  
fruit red with greenish  
calyx.



there  
generally  
slope toward  
the ocean.

Rota is a series of coral limestone terraces, about five of them (the second from the top is a bit confused when viewed from the north), with a low tip of volcanic tuff projecting thru the middle of the topmost, and a considerable exposure of volcanic breccia on the southeast side, this capped by a thick layer of limestone. The third main terrace is the most extensive, and is where the air strip is situated. Actually there may be several more minor terraces than the 5 mentioned, but they are hard to separate.

The island has more vegetation than Tinian, apparently because there is less arable soil. On exposures of ~~the~~ <sup>the</sup> ~~malate~~ <sup>malate</sup> the original forest persists in fairly undisturbed

condition. Patches of this occur on all terraces and on the breaks between them where they are not vertical cliffs. On the upper terraces this is real rain forest with an abundance of small leaf epiphytes. The tree cover is thick, with a fair growth of epiphytic ferns and a few orchids, and with but little undergrowth. The rocks are covered by mosses, etc. Principal trees are *Hernandia* sp. (differing from the strand species in the non-peltate leaves, smaller fruit in proportion to the size of the perigone, ovifer hour-glass shaped instead of circular, and some flower differences.), *Guettarda*, *Pandanus tectorius* (?), *Elaeocarpus* sp. (large tree), *Ficus* sp., *Artocarpus* sp. (entire leaves), *Pipturus argenteus*, *Laportea* (??), *Eugenia*



*Pisonia*  
umbellifera  
*Pisonia*  
in opening  
shrub

*stelecantha*(?), *Guamidia*  
*saffordii*, *Macaranga* sp.,  
*Claoxylon*(???) <sup>*Tarenna glabra*</sup> with *Pisonia*,  
*Ardisia* sp., *Piper* sp.,  
as shrubs. *Mucuna*  
*gigantea* and (more rarely)  
*M. urens*, are tangled  
in the trees. *Flagellaria*  
*indica* and *Freycinetia*  
are common climbers.  
*Taograea* sp. is not common.  
It has a strangling habit  
as in *Ficus* and *Clusia*.

It is hard to tell if this  
forest was what was found  
on the parts of the upper  
terraces where soil was  
most abundant or not.  
These places have been  
cleared. Wind breakers and  
patches of *Acacia confusa*  
have been planted. Under  
these nothing grows. Most  
of the cleared land is now  
abandoned. *Paspalum*  
*conjugatum*, *P. orbiculare*  
and *Solanum nigrum*  
are abundant weeds,  
as well as *Crotalaria*

*saltiana*. The exposure  
of volcanic soil on the  
top terrace is largely  
covered with *Acacia*  
*confusa*, but where  
it is open, *Gleichenia*  
*linearis*, *Lycopodium*  
*cernuum*, *Dryopteris* sp.,  
3 sp. of *Cyperus*, and,  
above, all, tangled brakes  
of *Miscanthus japonicus*,  
are common. Napier

grass, *Pennisetum purpureum*,  
persists everywhere,  
both on volcanic and  
calcareous soils. Patches  
of *Saccharum* also persist.

The large third (?) terrace  
has mostly been cleared.  
Judging from the remnants,  
the forest there was a rather  
mesophytic type, ~~not~~  
without many leaf  
epiphytes. *Ficus* sp.,  
*Randia cochinchinensis*,  
*Pandanus tectorius*, *P. fragrans*,  
were components, probably  
many more. A shrub  
or small tree of the *Sterculiaceae*

*Samanea*  
*sepium*  
*melastoma*



(25153) has come in in almost pure stand over large areas, forming a scrub 2-3 m. tall. In open places *Passiflora foetida* or *Ipomoea* sp. (24943) or both form a dense mat over the ground.

On the lower terraces the strand character of the vegetation becomes more and more pronounced. The portions of the second and its associated terrace examined had been largely cleared, except for patches of scrubby forest. This had *Intrisia bijuga*, *Ficus tinctorius*, *Ximenia americana*, *Gymnosporia*, *Pandanus fragrans*, *P. tectorius*, *Guarea*, *Hibiscus tiliaceus*, *Allophylus* sp., and others. The Japanese had planted *Casuarina* in patches. Sweet potatoes, cassava, and papayas are persisting from cultivation. On places where the soil is ~~very~~ ~~very~~ very thin

*Premna*  
*Melastoma*  
*Ochrosia*

the Japanese had raked it up in windrows following the contours and planted on these. The coral bedrock ~~is~~ is exposed between these.

The lowest terrace forms a sort of coastal plain along the northwest coast, at least. It lies, here about 2 m. above sea level. On the southeast coast it is much higher, 10-15 m. or more. On the isthmus it is variable. This apparently had, originally, a strand forest of *Hernandia* (sp. with peltate leaves), *Thespesia*, *Hibiscus tiliaceus*, *Barringtonia asiatica*, *Pandanus tectorius*, *Pandanus fragrans*, *Terminalia catappa*, *Claoxylon* (???), *Laportea* (?), *Macaranga*, *Premna*, *Ochrosia*, *Guettarda speciosa*, *Pithecellobium dulce* (an important component but probably introduced),



*allophyllus*, *Pipturus argentea*,  
*Morinda citrifolia*, *Melanolepis*  
*multiglandulosa*, occasional  
*Pisonia grandis*, *Albizzia*  
*lebbek*, *Grewia*, occasional  
*Muntingia calabura*, *Ficus* 2 sp.,  
*Intsia bijuga* (common),  
 along the beach *Messerschmidia*  
*argentea*, *Sophora tomentosa*,  
*Excoecaria agallocha* and  
 abundant *Scaevola frutescens*  
 undergrowth of *Phyllanthus*  
*jasminum*, *Clerodendron*  
*Colubrina asiatica*,  
*Callicarpa*, and,  
 above all dense thickets  
 of *Triplaris trifolia*. The  
 whole forest entangled  
 in *Mucuna gigantea*  
 and, more rarely, *M. urens*  
 (or *pruriens*), with *Sporobolus*  
*alba* near the ocean.  
 In openings are many  
 weeds - *Phyllanthus*  
*niruri*, *Acalypha* sp.,  
*Euphorbia pirta*, *E. thymifolia*,  
*Cassia occidentalis*, *Sida*  
 sp. (aff. *rhombifolia*), *Eleusine*  
*indica*, *Chloris radiata*,  
*Solanum nigrum*, *Solanum*

*icosandra*, grass (24942),  
*Digitaria sanguinalis*,  
*Cyperus rotundifolius*  
 forming dense patches,  
*C. stuppeus* in isolated  
 tufts, common, *Lepturus*  
*repens* near the coast,  
*Thurarea* just at top of beach.  
*Asclepias curassavicus*, *Euphorbia*  
*heterophylla*

On cliffs and big rocks  
 near ocean *Pemphis*  
*acidula* (only right near  
 ocean), *Bilbia*, *Terminalia*  
 sp., *Canthium* sp.,  
*Clerodendron*, *Wedelia*,  
*Digitaria marianensis*,  
*Davallia solida*, *Asplenium*  
 sp., *Psilotum nudum*,  
*Hedyotis albida-punctata*,  
 and at bases of cliffs  
*Hedyotis foetida* var. *marianensis*,  
 and a fern (25138), a large  
*Dryopteris* (25137). On the  
 branches of trees *Hypmenolepis*  
*spicata*, *Davallia solida*,  
~~and~~ *Procris pedunculata*, and



a sterile *Elaphoglossum* grow epiphytically.

On the higher terrace on the south coast

*Podonala viscosa* is common, also *Paspalum conjugatum*.

Coconuts have been common along most of the coast, but except for one or two places only stumps remain. Where any trees remain they are very seriously affected by a weevil.

Cultivated plants of various sorts persist on the lower terrace -

*Citrus limon*, *C. aurantiifolia*,  
*Acalypha wilkesiana*,  
*Agave sisalana*, *A. americana* (2)  
*Calophyllum inophyllum*,  
*Rhoeo discolor*, *Polyscias*  
*guilfoylei*, ~~*Bacca*~~ *Phyllanthus*  
*nivosus*, *Codiaeum variegatum*,  
*Ricinus communis*, *Carica*  
*papaya* (one of the most  
abundant weeds), *Bougainvillea*,  
*Delonix regia* (common), etc.

On the south coast above the village of As Malote, is an extensive slope of a deeply weathered volcanic breccia. ~~The~~

This is open country, frequently burned, and with large erosion and slippage scars.

It has a distinctive flora.

The dominant plant is *Miscanthus japonicus*.

Other things are chiefly found in and around erosion <sup>and wet seeps</sup> scars - *Bidens* sp.,

*Rynchospora* sp., *Fuirena* sp.,

*Fimbristylis* sp., *Curculigo*

sp., *Euphorbia* sp., *Heteropogon*

*contortus*, *Eleocharis* sp.,

*Notholaena* sp., *Sphenomeris*

sp., *Tacca leontopodioides*,

and shrubs of *Wikstroemia*

*elliptica*, *Geniostoma* sp.,

and especially #15087.

*Synedrella nodiflora*

is a prominent weed in

cultivated areas in

this region. In a small

marshy place was a

numerous  
small  
streams  
flow down  
this slope.



stand of rice. Small farms here have patches of Zea, 2 types of *Alouasia*, one the ordinary *A. macrophylla* with almost erect, bright green leaves, the other with a distinct angle between blade and petiole and dull glaucous green leaves. *Colocasia* is cultivated here also. *Artocarpus* and *Mangifera* surround the houses. This seems to be the only active agriculture on the island at present.



June 27 - Kannat e edtot  
(Valley of Ants), 3 km. e. of  
Apetna Pt., Saipan I.  
small vally, abandoned  
coffee plantation, with  
*Passiflora foetida* smother-  
ing out the coffee trees.

25164

*Erythrina*

occasional

65

*Aglaia*occasional, at foot of  
cliff, on talus.

67

*Cynometra*~~small tree~~ at foot of cliff  
common locally.

66

*Melanolepis multiglandulosa*  
common

68

*Alyxia*common on face of  
limestone cliff.

69

*Coffea arabica* L.

plantation, formerly cultivated

70

*Acacia confusa*

planted as windbreak

71

*Intsia bijuga*

common in valley

## Saipan

coral limestone with  
some soil on it.

tree 5 m. tall, with  
small prickles.

tree 6 m. tall, leaflets  
~~tree~~ tending to droop;  
flowers orange,  
fruit orange when ripe.  
small tree, fruit  
immature.

shrub 2 m. tall,  
fruiting spikes pendent  
pendent shrub  
corolla lobes yellow,  
tube orange  
small trees 3 m. tall,  
ripe fruit red.

tree 6 m. tall, rounded,  
bushy, flowers  
yellow, fragrant.

tree 3 m. tall, flowers  
with green calyx, single  
petal white with pink <sup>center</sup> and claws  
stamens and style <sup>also</sup> pinkish.



25172 *Passiflora foetida* var. *hispidula* (DC.) Killip  
very abundant everywhere

73 *Leucaena glauca*  
very abundant ~~in open places~~  
in thickets and  
invading openings

74 *Cynodon dactylon* var.  
very abundant in openings

75 *Albizia lebbek*  
common everywhere  
this specimen in ravine

June 27 - south ridges  
of Mt. Tapotchuan (highest  
mountain on island), Saipan.  
rough limestone knob  
and slopes below it.  
thickets and openings

76 *Psychotria mariannensis*  
occasional on bushy slope

77 *Phyllanthus*  
very common on rocky  
slopes and bluffs.

78 *Claoxylon* (?)  
occasional in thickets

79 *Cyperus*  
common on open slopes

## Saipan

herbaceous vine  
climbing over everything,  
fruit orange.

~~forming a deep~~  
~~mat about 3 dm. deep~~  
shrub 1-2 m. tall.

forming a ~~deep~~ soft, loose  
mat about 3 dm. deep.  
small tree 5 m. tall,  
spreading, flowers  
cream yellow

shrub 1.5 m. tall, flowers  
white, ripe fruit  
red. (2 plants in coll.)

shrub up to 1 m. tall  
flowers greenish white.

shrub 3 m. tall, fruit  
green, fleshy.  
culms solitary,  
spikelets yellow-green







- 25187 *Curculigo*  
common along old road
- 88 *Fimbristylis*  
~~is~~ common in eroded spot
- 89 *Rynchospora*  
common in eroded spot
- 90 *Heteropogon contortus*  
common in eroded spot
- 91 *Fimbristylis*  
common in eroded and  
bare spots
- 92 *Pectaria*  
common along road
- 93 *Bidens pilosa* var. *minor*  
small patch along road.
- 94 *Echinochloa colonum*  
occasional along road
- 95 *Bidens pilosa*  
rare along road
- 96 *Aeschynomene* *Sesbania cannabina*  
occasional along road
- 97 *Pueraria* *Calopogonium mucunoides* Desv.  
rare along road
- 98 *Cassia*  
rare along road

Saipan.

- flowers yellow.
- caespitose, head tan.
- Tufts
- weak stemmed
- somewhat caespitose, culms erect.
- rays white.
- spreading to prostrate
- disk yellow, rayless.
- slender herb 1 m. tall,  
fls. yellow, standard  
outside.
- flowers yellow.



June 28 - sea cliffs east  
of Mt. Pitoanbana, n. end  
of Saipan Island  
cliffs and steep slopes  
mostly of a tuff that  
is largely composed of  
light gray pumice  
in a white crumbly matrix

25199

*Wedelia biflora* var. *canescens*  
bush on limestone slope

25200

*Scaevola frutescens* (Mill.) Kra  
open tuff cliffs, common

01

*Bikkia*  
ledges on tuff cliffs

02

*Heteropogon contortus*  
dominant in spots where  
*Miscanthus* is absent

03

*Fimbristylis cymosa*  
common in open places  
on cliffs

04

*Vicia*  
forming a mat at top of  
limestone cliffs

this in lateral contact  
with coral limestone,  
the tuff mainly open  
slopes with *Miscanthus*  
and *Heteropogon*, the  
limestone with bushy  
forest, the contact sharply  
delineated.

scrambling herb, leaves  
with a frosty appearance,  
flowers yellow.

low spreading shrub,  
leaves fleshy; flowers  
dull white; fruit white,  
fleshy.

shrub 2 m. tall; leaves  
fleshy; flowers white,  
strongly valvate conduplicate  
in bud, lobes becoming  
recurved late in anthesis.  
loose bunches

densely caespitose,  
leaves stiff.

prostrate, flowers  
violet.



- 25205 *Bidens glaucozyne tenuifolia*  
rare on bare tuff slopes
- 06 *Ipomoea alba* L.  
roadside, large patch
- 07 *Cantharospermum scarabaeoides* (L.) Baill  
climbing on shrubs on  
open tuff slopes  
(seen also but sterile  
with #25183-25198)
- 08 *Alyxia*  
ledges on tuff cliffs
- 09 *Portulaca quadrifida* L.  
edges of tuff cliffs
- 10 *Zoysia <sup>tenuifolia Trin.</sup> ~~matrella~~*  
open tuff slopes and ledges
- 11 *Hedyotis albidopunctata*  
crevices and ledges in  
tuff cliffs

June 24 - same as 25110-25114.  
cultivated ground in dooryard

- 12 *Euphorbia thymifolia*
- 13 *Pilea microphylla*  
densely covering ground
- 14  
parasitic on *Euphorbia thymifolia*

rays yellow, short.

prostrate, extensive,  
flowers white, closed  
at 10:30 a.m.

twiner, leaves strongly  
reticulate, gray beneath,  
flowers dull yellow.

climbing on bushes,  
flowers lemon yellow  
with orange tube, fragrant.  
prostrate, fleshy,  
flower yellow, about  
15 mm. across.

~~prostrate~~ erect tufts  
spreading by prostrate  
rhizomes.

prostrate, fleshy,  
flowers white.

Rota

prostrate, purplish.

causes normally prostrate  
plant to grow upright.



June 28 - just south of  
Garapan, on coastal plain  
weedy roadside

25215

Ipomoea

- 16 *Forghum halepense*  
weedy low roadside  
abundant over most  
of island except uplands

June 28 - at base of  
Cliffs north of Mt. Marpi,  
north end of Laipan?  
rocky ground, dense  
brushy forest against  
cliffs, thinning outward

17

*Cerbera manghas* dilatata  
occasional,

- 18 *Emilia sonchifolia*  
common weed in ~~open~~  
open places.

- 19 *Abutilon indicum*  
occasional in open

extensive vine covering  
ground and bushes.  
tufts with heavy  
rhizomes.

spreading rounded tree  
5 m. tall, flowers  
white with yellow  
eye, fragrant; only one  
carpel developing  
into fruit, this pendent.  
flowers purple, scarcely  
erect.

herb 1 m. tall, flowers  
yellow, closed by  
10 a.m.



25220 *Cyperus stuppeus*  
open ground

21 *Ficus*  
edge of forest

22 *Randia cochinchinensis*  
edge of forest

23 *Laportea*  
edge of forest

24 *Ficus tinctoria*  
on a large limestone  
boulder.

25 *Psychotria*  
edge of forest

June 23 - south end of Saipan I.  
near Kobler field

26 *Mucuna*  
common in second growth brush.

small clump,  
leaves glaucous.

spreading tree  
3 m. tall, rounded  
figs immature, turning  
purplish.

shrub 1.5 m. tall,  
buds white, ripe  
fruits purple.

small tree with soft  
wood, flowers green.  
leaves do not sting,  
but the open flowers  
sting most painfully,  
the sensation lasting for  
hours.

pendent shrub  
fruits green, when  
ripe becoming only  
slightly yellowish.

shrub 1.5 m. tall,  
flowers white, ripe  
fruit red. leaves dull-  
glossy.

extensive vine, covering  
ground and vegetation  
flowers pale green.



1946 Marianas Is.  
June 28 slopes e. of Mt. Tapotchau  
Saipan

- 25277 *Ficus tinctorius*  
on top of large coral  
boulder

same - knoll of deeply  
weathered volcanic material  
covered with *Paspalum*  
*conjugatum*.

- 28 *Phyllanthus* <sup>*debilis* Klein ex Willd.</sup> ~~*minimus*~~  
road cut talus

- 29 *Phyllanthus niruri*  
road cut talus

June 28 slopes n. of Mt.  
Tapotchau, Saipan  
remnants of native  
forest on limestone outcrops.

- 30 *Alyxia*  
bushy slope under trees

- 31 *Pisonia grandis* R.Br.  
occasional

- 32 *Pandanus fragrans*  
common

spreading shrub,  
fruit immature,  
green with purplish cast.  
a few ripe, dull reddish.

det. G. L.  
Walton, 1965

erect, purplish-green.

erect, green.

scandent shrub,  
corolla lobes yellow, tube  
orange, somewhat inflated  
above.

tree 12 m. tall, trunk 1.5-2 m.  
through; flowers  
green, fragrant.

tree 6 m. tall, leaves  
spirally arranged,  
fruit glaucous.



June 28 - just north of  
Agingan Point, s. w.  
corner of Saipan?

beach with dunes of  
coral sand at one end  
and low undercut  
shelf of coral limestone  
about 3 m. high at  
other. Disturbed weedy  
flats ~~below~~ of compact  
soil behind this.

25233 *Euphorbia thymifolia*  
weedy flats

34 *Acalypha indica* L.  
rare on weedy flat

35 *Hymenodrella nodiflora*  
common on weedy flat

36 *Terminalia catappa*  
top of low cliff in thicket

37 *Amaranthus viridis*  
top of beach below low cliff,  
occasional

38 *Polypodium scolopendrium*  
face of low limestone cliff.

39 *Premna obtusifolia* R. Br. (other loc.)  
thicket at top of low limestone  
cliff

prostrate, purplish.

erect, green.

erect, flowers yellow.

tree 6 m. tall, flowers  
white.

erect herb up to 0.8 m. tall

fronds erect, rhizome creeping.  
(soil being eaten by a small  
larva.)

shrub 2 m. tall,  
flowers green.



- 75240 *Vitex negundo*  
dissected coral rock  
common
- 41 *Messerschmidia argentea*  
sand dunes, common
- 42 *Wedelia biflora* var. *canescens*  
sand dunes
- 43 *Cassytha filiformis*  
sand dunes, climbing  
over and parasitic on  
various shrubs
- 44 *Thuarea involuta*  
top of beach
- 45 *Cenchrus echinatus*  
common on dunes and  
flats.
- 46 *Hernandia*  
common tree along top of beach
- 47 *Tacca leontopodioides*  
small colony in  
shelter of sand dune
- 48 *Euphorbia*  
sand dunes
- 49 *Amaranthus spinosus* L.  
sand dunes
- 50 *Vernonia cinerea*  
sand dunes, common

- shrub hanging over  
edges of rocks, flowers  
lavender.
- shrub 2.5 m. tall,  
leaves fleshy, silvery  
green; flowers white.  
prostrate, branches  
ascending, flowers  
yellow.
- leafless vine, ~~green~~  
yellow-green, fleshy;  
flowers white,  
fruit green.
- prostrate forming loose  
mats
- loosely caespitose
- small tree 4 m. tall,  
leaves glossy, flowers white.  
sterile
- prostrate, pale green.
- herb 0.7 m. tall
- flowers purple



25251 *Sporobolus per-caprae*  
beach

52

52 *Malvastrum coromandelianum*  
common on dunes and flats

53 *Euphorbia heterophylla*  
~~occasional~~ <sup>common</sup> on dunes

54 *Sida*

common on dunes and flats

55 *Triumfetta procumbens*  
occasional on upper beach

56 *Euphorbia hirta*  
common everywhere

57 *Casuarina equisetifolia*  
common along upper  
edge of beach

June 29. Tanapag, Saipan.  
small mangrove swamp  
partially filled in with rubble,  
only one species of mangrove  
seen, other associated  
plants around edges,

prostrate, extensively  
creeping vine.  
flowers purple, closed  
in afternoon

erect herb, bracts  
scarlet at base.

bushy herb up to 0.3 m.  
tall, flowers dull orange-yellow,  
pale toward outside. (specimens  
from several plants)

prostrate, flowers  
deep yellow.

stems ascending,  
arching at tips.

tree 10 m. tall, 25 cm. thick.  
(these trees look quite  
healthy, as do most  
that are down along  
coast, as contrasted  
with those up in mountains)

*Acrostichum aureum*  
clumps among  
mangroves.



25258 *Bruguiera*  
dominant plant in calcareous  
tidal mud flat

59 *Hernandia*  
common around edges of  
mangrove swamp

60 *Thespesia populnea*  
common around edges  
of mangrove swamp

61 *Ipomoea*  
along roadside

62 *Vigna ~~tata~~ marina*  
edge of mangrove swamp  
along roadside and rubble heaps

63 *Hibiscus tiliaceus*  
edge of mangrove swamp

tree 5 m. tall with  
~~blunt~~, knee-shaped  
pneumatophores;  
calyx bright red, glossy,  
petals dull flesh-orange;  
radical (?) & aerially borne  
root) hexagonal in  
cross section.

tree 7 m. tall, flowers  
white, fruiting <sup>perigone</sup> inflated,  
pale green, not quite  
mature. borne in  
clusters below flowering  
clusters at flowering time.  
ovary circular, ~~for~~ plugged  
by fruit when immature.

small tree 4 m. tall,  
flowers pale yellow  
with deep purple-black  
center.

vine, flowers purple,  
small (2 cm. across)

prostrate, extensive,  
peduncles erect,  
flowers dull yellow.



June 29 - west of Lake  
Lusupe, Saipan.  
low ground on coastal plain

25264

fence row

- 65 *Pithecellobium dulce*  
fence row, commonest  
lowland tree.

- 66 *Terminalia catappa*  
roadside

67

June 29 Lake Lusupe,  
Saipan I.

lake of clear dark colored  
water, almost fresh,  
surrounded by marshes  
of *Paspalum vaginatum*  
and swamps of  
principally *Acrostichum*  
*aureum*, *Clerodendron* sp.  
*Hibiscus tiliaceus* etc.  
with a few large *Caruarina*

- 67 *Paspalum vaginatum*  
pure stand forming  
dense turf on wet ground

- 68 *Acrostichum aureum*  
common in swampy  
ground

shrub 1.5 m. tall.

rounded spreading  
tree 8 m. tall with  
fruit pendent, coiled.  
Tree 6 m. tall, flowers  
white, fruit very young.

large clumps, ponds  
up to 2 m. tall, dimorphic.



75267 *Ipomoea*rare in *Paspalum* turf70 *Clerodendron*

abundant in swamp

June 29 - marshes and ponds  
about 1 km. s. of  
Lake Susupe, Saipan?

margin of pond

71 *Jussiaea*

abundant in water

72 *Cyperus*~~not~~ common in edge of water73 *Scirpus*

abundant in water

74 *Indigofera* *suffruticosa* Mill.

occasional near pond.

75 *Ipomoea reptans*

abundant in mud

June 29 - Afetna (Susupe) Pl.  
Saipan).

dooryard

76 *Heliotropium indicum* L.flower <sup>rose-</sup>purplesemi-scandent shrub  
forming large masses.

sprawling shrub

2 m. long, flowers

yellow, petals obcordate.

caespitose

culms terete

shrub 3 m. tall.

decumbent with ascending  
tips, stems fistulose,  
plants sterile.

fls. pinkish white.



The island of Saipan is much less simple in its topography than Rota or Tinian. Like them it is principally raised coral limestone, and a number of terraces are in places evident. There has been much erosion and probably other disturbance, resulting in a rather high mountain mass in the center

(Mt. Tapotchau), continuing rather ruggedly to the north<sup>end</sup> but sloping off rapidly to a low ridge in the south. Much of the western part, except in the north, is a broad coastal plain, variable in height but not more than 4 m. A lake of almost fresh water and a string of ponds and marshes lies along the inner edge of this coastal plain. Around the lake is an extensive swamp

foetida almost smothers everything out.







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Essentially as in the other Marianas, the flora was originally a strand flora, becoming more mesophytic with the higher altitudes and distance from the seacoast. The small ~~at~~ Micranthus area is an exception to this.

of *Acrostichum*, *Clerodendron* and *Paspalum vaginatum*. The marshes are filled with *Scirpus*, *Jussiaea*, *Sporobolus*, etc.

This island is so disturbed and torn up that it is little more than a great weed patch. All of the lowland has been under cultivation or bulldozed except the extreme strand, and even this is not undisturbed in many places. Most of the ordinary tropical weeds characterize the lowlands, and are about the only thing there. Along the beach and occasionally inland are large *Casuarina* trees appearing quite healthy. *Triphasia trifolia* covers the island, forming thickets both in the low and middle altitudes. *Passiflora foetida* almost smothers everything out.



Here young  
Casuarina is  
common but  
the trees are  
mostly dying  
with no  
apparent cause.

One large ridge to the south of Mt. Tapochan is covered by *Miscanthus* and has a slight development of the volcanic soil flora. The soil is thick and clay-like, but underlain by limestone. Otherwise the middle altitudes are either cleared, or thickets of *Triplasia*, *Albizia* and *Acacia confusa*. Patches of remnants of native vegetation such as *Pandanus* (2 sp.) and *Ficus* sp. remain here and there, but most of the brush and woods are *Acacia* and *Albizia*, which are ~~are~~ apparently competing for complete possession of the island.

The *Acacia*, especially, forms a dense stand, permitting nothing to live beneath it. From a distance the mountain appear wooded, but most of it is these two species.

On the cliffs many native species persist, both actually on them

There is some acreage of sugar persisting in the higher hills of the northern part. In Kanat a little valley is a small coffee plantation, almost smothered by *Paspalum*.

and at their bases. Here are *Carbera*, <sup>*Biklops*</sup> *Psychotria*, *Randia*, *Ficus*, <sup>*Laportea*</sup>, *Pandanus* (2 sp.), *Pipturus*, etc.

On the higher slopes of the main mountain mass are also some fairly good stands of native vegetation, both on rocky outcrops and slopes. *Phyllanthus*, *Biklops*, *Psychotria*, and a number of trees are here.

*Intsia bijuga* is scattered almost everywhere, as is *Cynometra*, but the latter only on rocky places. *Alysicia* is also common where a trace of native vegetation persists.

Volcanic material comes to the surface here and there in the mountains, but seems mostly covered by *Paspalum conjugatum*. A tuff exposure, gray pumice breccia, on the north-east side, has a poor development of the volcanic soil flora, mostly *Heteropogon* and *Miscanthus*. The boundary between forest and grass is very sharp on the contact.



July 1, Mt. Alutom, Guam  
 eroded slopes of volcanic  
 soil, generally covered  
 by *Miscanthus japonicus*,  
 but eroded spots and  
 sheltered places have  
 a peculiar flora, similar  
 but with more numerous  
 species than that on Rota  
 on volcanic soil. Several  
 sedges, *Scaevola putrescens*,  
*Wikstroemia*, *Dianella* sp.,  
*Pityrogramma*, *Blechnum*,  
*Pteris*, *Glochidion*, *Bidens*  
 sp., ~~to~~ several grasses

25277 *Scaevola putrescens*  
 common

78 *Mitracarpum*  
 common

79 *Euphorbia*  
 common

80  
 abundant

81 *Desmodium triflorum*  
 common

82 *Bidens glauca tenuifolia* exposed  
 local, in crevices in  
 red rock

*Euphorbia* sp., *Lycopodium*  
*cernuum*, *Gleichenia*  
*linearis*, etc. all  
 characterize it, besides  
 a number of weeds,  
 as *Emilia sagittata*,  
*Stachytarpheta*, etc.

low shrub 1 m. tall,  
 rounded; flowers white,  
 fruit white, fleshy.  
 - erect, flowers white.

erect, flowers white.

grayish green.

prostrate, flowers purple.

flowers yellow.



25283 *Cureuligo*~~est~~ bare soil84 *Wedelia biflora* var. *canaliculata*.

common

~~85 *Pityrogramma*~~85 *Pityrogramma*  
occasional86 *Wikstroemia elliptica* Merr.  
occasional87 *Geniostoma micranthum* var. *micranthum*  
one bush seen88 *Gleichenia linearis*  
common89 *Glochidion*  
occasional90 *Dryopteris*  
common91 *Phyllanthus*  
local92 *Fimbristylis*  
~~common~~ occasional93 *Elephantopus scaber*  
common94  
occasional95 *Pteris*  
common

flower yellow

prostrate, ~~leafy~~  
branches ascending,  
flowers yellow.shrub 1 m. tall,  
flowers green.— shrub 1 m. tall,  
flowers white.— forming dense low  
tangles.

— shrubs 1 - 1.5 m. tall.

erect, leaves sensitive.

erect

erect, flowers white.

low bush, 0.7 m. tall,

— flowers white.  
fronds erect from  
buried rhizome.



25296 *Trema orientalis* var. *indica*  
rare

97 *Dianella*  
common

98 *Rynchospora*  
common

99 *Fimbristylis* *schoenoides* var.  
*foenea* (Kuhn.) Fosb.  
common

July 1 - Ritidian Point,  
north ~~end~~ <sup>side</sup> of Guam  
thick wet forest on  
rough coral limestone  
at top of high cliff

25300 *Cycas circinalis*  
common in forest

photo # 5-10

01

common in forest

photo # 5-11, 5-12

02 *Ficus*

occasional, this specimen  
on cliff rim.

03 *Aglais*

occasional in forest

04 *Bibbia marianensis*  
common <sup>and below</sup> on edge of cliff

# Guam

shrub 2 m. tall,  
leaves green beneath,  
fruits purple when ripe.  
— loosely caespitose,  
flowers and fruit white.  
— tufts

tufts.

cliff bordered by a  
high rim of dissected  
coral, about 4 m. high.

trunk 1.2 m. tall, leaves  
ascending, cones erect,  
bright tan, somewhat  
immature.

tree 12 m. tall with  
rounded crown and  
drooping branches.

Bark with ~~peppery~~ peppery odor,  
small tree 4 m. tall,  
— ~~fruit~~ flower orange  
shrub 1.5 m. tall, flowers  
white.



25305 *Clavosylon*  
late

25305 lichen acc. W.W. Dickel, sent to Claus.

on bark of dying branch  
of *Aglaia* (25303)

06 *Clavosylon*

occasional in forest

{ 07 *Hedyotis foetida* var.

{ 08 common on cliffs and

{ 09 on limestone back of them

10 *Bibbia mariannensis* var.  
top of cliff

11 *Morinda umbellata* v. *glandulosa*  
climbing in trees in forest

12 *Thuarea involuta*

~~prostrate~~ common on  
level places

13 *Elatostemma*

on inner face of rim of  
cliff

14 *Polypodium scolopendrium*

edge of cliff on rough limestone

15 *Cordia subcordata* Lam

inner face of rim of cliff

16 *Bibbia mariannensis*

just below edge of cliff

shrub 2 m. tall  
like white purple.

black raised spots

small tree, erect,

calyx accrescent, spongy,  
pale green.

— small shrub, up to 0.8

anther purple m. tall, flowers white.

— plant foetid when broken.

— shrub 1.5 m. tall, fls. white.

woody vine, fruits

yellow when nearly ripe.

— prostrate, mat-forming

fronds erect

tree 5 m. tall; flowers

brilliant red orange,

fruit green.

— small shrub, flowers  
white.



25317

occasional in edge of clearing  
near rim of cliff

18

*Eragrostis*

in crevices of edge of cliff

19

*Phyllanthus*

common in rock crevices  
on rim of cliff

20

*Eugenia*

on rim of cliff

21

*Bickbia*

just below rim of cliff

July 2 - just south of  
Agfayan Bay, south of  
Inarajan, Guam.  
reef flat, slightly  
exposed at low tide

22

very local

23

abundant all over reef flat

shrub 2 m. tall; flowers  
pink, deeper at center.

spreading tufts.

compact bush 0.6 m. tall,  
ripe fruit red with  
green calyx.

— shrub, flowers white  
(photo)

sterile, rhizomes buried  
in sand.

sterile, rhizomes deep in  
sand, leaves distichous,  
mostly pruned off at tips,  
two lateral fibers  
persisting after leaves  
rot away



July 2 - plateau between  
Ylig and Talafofs rivers,  
northwest of Talafofs

100-150 m.

25324 *Hedyotis biflora*  
shaded roadside

same - pools of mud  
and water in depressions  
on plateau, largely  
filled with sedges -

25 *Eleocharis*  
common ~~in mud~~ locally  
in mud

26 *Rynchospora*  
abundant in mud

27 *Heliotropium indicum* L.  
common in mud

28  
common in mud

29 *Fimbristylis*  
common locally in mud

30 *Lygodium scandens*  
one plant seen, climbing  
in clump of *Miscanthus*

open country, red soil with  
*Miscanthus japonicus*, but  
large areas denuded and covered  
by *Stachytarpheta*.

plant almost prostrate,  
corollas white, minute.

*Rynchospora*, *Trinena*,  
*Fimbristylis* (2 sp.) (Hosaka 3135)

culms weak, erect  
but supported by other  
vegetation.

large dense clumps

flowers pinkish

caespitose, leaves equitant,  
distichous; flowers  
yellow.

caespitose, dense clumps.

very sterile pinnae  
below, fertile above, becoming  
more so upward.



same - abandoned  
military camp.

25331

*Ficus*

persisting from former  
vegetation, in yard

32

*Emilia javanica*

around buildings (with  
*E. sonchifolia* - Horak 3125

33

*Stachytarpheta indica* (L.) Vahl

very common everywhere  
in disturbed ground

34

*Chloris inflata*

occasional

35

*Mitracarpum*

common

July 3 - Togcha Bay,  
east coast of Guam  
sand flats back of  
beach, some rough coral

36

*Pemphis acidula*

abundant

on rough coral rock,  
"nigas" wood used for  
canes or swagger sticks.

37

*Triumfetta procumbens*

sand flat, not common

large banyan with  
many rather slender  
separated trunks:

- figs green  
sprawling ascending  
annual, flowers dull  
scarlet.

- flowers blue violet,  
herbs 0.3 m. tall. with  
white eye.

flowers white.

casuarina trees, seaevola  
bush, ground cover of  
*Ipomoea pes-caprae* and  
*Vigna marina*. *Pemphis*  
*acidula* on coral rock.  
shrub 1.5 m. tall, other  
much lower, flowers  
white, leaves salty and  
somewhat astringent  
when chewed, fleshy.

prostrate, extensive,  
"ka'mang unai"



- 5338 *Wedelia biflora* var. *cardosensis*  
common on sand
- 39 *Leaevola frutescens*  
common
- 40 *Messerschmidia argentea*  
occasional on sand
- 41 *Fimbristylis*  
occasional on sand
- 42 *Vigna marina*  
abundant on sand
- 43 *Colubrina asiatica* L.  
common in thickets
- 44 *Lesuvium portulacastrum*  
rare on rocks  
"chara" eaten cooked as a vegetable.
- 45 *Euphorbia Chamissonis* Boiss.  
rare on sand

- "maiigisig" sometimes used  
medicinally.
- prostrate, extensive,  
with ascending branches.  
shrub 2.5' m. tall  
flowers white; fruit white  
fleshy. "nanaso" root and bark used  
to prepare a lotion.
- shrub 3 m. tall; leaves  
silvery green, fleshy;  
flowers white. "unig".  
caespitose. leaves "lotesa"  
"kantontasi".  
somewhat stiffish.
- prostrate, extensive;  
peduncles erect. flowers  
yellow. "akanhan mahlos"  
medicinal for many ailments.
- semi-scandent shrub,  
leaves glossy; flowers  
yellow. "gaooso" used  
medicinally for many ailments.
- prostrate, stems green;  
leaves thick, fleshy;  
flowers pink within.
- leaves white beneath  
flowers greenish.  
"betulagas unai"



July 3 - just south of  
Ylig Bay, Guam  
thickets mostly of  
*Triphasia* on <sup>coral</sup> slope 50-65m

25346

*Occhrosia oppositifolia*

~~Triphasia~~ common  
"fago" nuts eaten, trunk  
used for fuel.

47

*Pomoea*

common in clearing  
"fotgo" leaves fed to pigs, young tops  
mashed and applied to bruises.

48

*Solanum nigrum* L.

common along roadsides  
and in clearings

49

*Capsicum frutescens*

roadside "doni sali" fruits  
leaves cooked with

50

*Jasminum marianum* DC.

in clearing

51

*Eugenia palumbis*

thicket

52

*Guamia saffordii*

occasional in thicket

wood used for firewood  
and for handles for focinos  
(local hoe like implements)  
and axes.

tree 8 m. tall 20 cm. thick,  
lactiferous; flowers small,  
fruits yellow when ripe,  
slightly reflexed, didymous.  
vine, twining over ground  
and bushes, flowers blue,  
still open at noon.

herb up to 1 m. tall; ripe  
fruits black, flowers  
white.

small shrub; flowers  
white; fruit red when ripe.  
scandent shrub;  
flowers white.

shrub 1 m. tall, flowers white.  
"doni chaca"

small tree 4 m. tall,  
leaves thin; flowers  
greenish yellow, numerous  
petals fleshy, rugose  
within; fruits immature,  
carpels radiating in  
all directions. "pai pai"



25353 *Planchonella*  
occasional in thickets

54 *Gymnosporium*  
rare in thickets

July 3 - valley just back  
of Pago Bay, Guam  
~~roadside~~ woods along 10 m.  
roadside.

mainly *Hernandia* and  
*Hibiscus tiliaceus*, covered  
by vines.

55 *Hernandia*  
common

"nona" leaves and cambium  
applied fresh to boils, seeds  
used by children for marbles.

56 *Hedyotis biflora*  
common along small dirt road

57 *Hibiscus tiliaceus*  
very common generally  
"pago" bark of young shoots used for fiber  
wood as ribs of boats; buds as medicine for boils.

small tree 4 m. tall,  
fruits green. "myolon"  
wood used for house foundations.

semi-scandent shrub,  
fruit reddish green.  
"lalukut" used medicinally.

tree 12 m. tall, leaves  
glossy; flowers white  
3-4 merous, stigma  
horse-shoe shaped; fruiting  
perigone red, inflated,  
when ripe, with round  
orifice.

stems ascending;  
leaves thin; flowers  
white, corolla tube ~~swollen~~  
swollen "pan dede" used  
medicinally.

low shrubby tree 4 m.  
tall; leaves dark green above;  
flowers pale yellow with maroon.



July 3 just east of  
Merizo, south end of  
Guam. 0 m.  
mud flat just  
developing into a  
mangrove swamp.

25359

25358 *Derris trifoliata*  
common in thickets

July 3 just east of  
Merizo, south end of  
Guam 0 m.  
mud flat just  
developing into a mangrove

59 *Bruguiera*  
common locally  
"mangle" wood used for  
rafters for houses, bark used  
for dyeing fish nets and lines  
dark brown so fish won't see them.

60 *Intsia bijuga* Melicc.  
= *Xylocarpus moluccensis* (Lam.) Pres.  
det. Lynn Ravn 16 Aug. 98  
occasional along shore

vine climbing over shrubs  
leaves glossy; buds  
pink. "bagin" vines used  
for tying bundles of wood and for  
weaving bamboo strips for  
fish traps.

swamp.

small tree with  
blunt knee-like  
pneumatophores; calyx  
shiny, red; corolla dull  
flesh-orange; developing  
radicle bluntly hexagonal  
in cross section.

small tree 5 m. tall,  
sterile.

"ifil" wood very valuable, used  
for construction, flooring, furniture,  
carving, also for charcoal.



25361

*Thespesia populnea*  
common along shore  
"banalo" or "kilulē"

bark boiled down and used by women for

62 *Rhizophora mucronata* Lam.  
occasional in mud

63 *Casuarina equisetifolia*  
common along beach

July 3 - just south of  
Talafofo Bay, Guam  
brushy slope tangled  
with vines, brush  
mostly *Triplasia*.

63a *Dioscorea*

common (wild variety)

"gado" roots eaten; leaves used for

64 *Cordia subcordata* Lam.  
occasional

65 *Premna obtusifolia* L. (painted box.)  
occasional

leaves used ~~in~~ medicinally  
for diseases like pneumonia.

July 4 Inarajan, s.e. coast  
of Guam  
dissected rough coral  
on edge of sea, mostly  
covered by *Pemphix acidula*

small tree 5 m. tall,  
flowers pale yellow,  
turning reddish.  
lotion, wood used for house foundations.  
fruit used by children to make tops.

lotion, wood used for house foundations.  
fruit used by children to make tops.

small tree 3 m. tall,  
with arched prop roots,  
tree 8 m. tall, branchlets drooping,  
"gago" very hard wood used  
for foundations for houses, also  
good for charcoal, "leaves" used for  
smudging mosquitoes at  
night.

vine tangled over  
everything, sterile.  
medicine for fatigue and stomach ache.

small tree 5 m. tall;  
fruit immature.  
wood used for house foundations.  
small tree 4 m. tall,  
leaves dull, much  
affected by a gall; flowers  
green. "agan" valuable wood,  
as good as "ifil", termites don't like it.

*Scaevola frutescens*  
also prominent.



25366 *Amaryllis*  
gravelly flat back of rocky  
edge of water

67 *Callicarpa*  
fairly common on rough  
coral

68 *Hedyotis albidopunctata*  
in holes in rough coral

69 July 4 - Umataq, Guam  
*Lambucus* *canadensis*  
cultivated in village

July 4 - Merizo and vicinity  
south end of Guam  
moist coastal plain,  
almost completely  
under cultivation but  
weedy and with thickets.

70 *Pandanus tectorius*  
roadside

cluster of bulbs rooted  
but exposed; flowers  
with perianth segments  
white with a rose-  
purple stripe along  
center.

depressed shrub,  
flowers pink.

flowers white, lobes  
patent, oblong-lanceolate

shrub 4 m. tall,  
trunk 6 cm. thick, gnarled,  
flowers white; fruit immature

tree 6 m. tall, fruit  
ripe, orange-yellow,  
rather unpleasantly fragrant,  
nuts eaten but flesh  
very irritating to mouth  
and throat.



75371 *Ixora*

cultivated as an ornamental

72 *Momordica charantia*  
weed around buildings  
and thickets73 *Jatropha curcas*  
in thickets74 *Eleusine indica* L.  
common everywhere

## Guam

shrub 2 m. tall, flowers  
white.vine, extensively climb-  
ing, flowers yellow,  
open in morning, closed  
and dropping in  
afternoon; fruits red-  
orange, elastically dehiscent  
at touch; said to have  
been brought to Agaña  
from Puerto Rico; then the  
local priest, Father Marcian  
brought it to Merizo  
before the war, planted  
it around the church.  
Now it has spread  
into the surrounding  
area.small spreading tree,  
latex thin, <sup>not</sup> abundant,  
flowers green. fruits yellow  
when mature; dry nuts  
still hanging on tree."tuba tuba" sap used for  
blowing bubbles; nuts  
eaten but only in small  
quantities, also strung  
and burned in place of candles."chaguan kabajo"  
fodder for cattle.



25375 *Portulaca oleracea*  
disturbed ground

76 *Cassia*  
probably planted, near  
dwellings.

77 *Vernonia cinerea*  
common weed

78 *Paspalum*  
occasional in open

79 *Euphorbia hirta*  
very common

80 *Phyllanthus* <sup>*amarus* Schum. & Th.</sup> ~~*mirus*~~ det. G. L. Webster, 1955  
common everywhere in open

<sup>*cleome viscosa* L.</sup>  
81 *Solanisia* ~~*icosandra*~~  
common in disturbed ground.

82 *Dioscorea*  
cultivated

## Guam

fleshy, depressed to ascending,  
flowers yellow, stamens  
about 10. "bedulagas  
dangculo" eaten cooked  
as a vegetable.

shrub 1 m. tall, flowers  
yellow, pods terete.

"amot turnaga"

leaves used medicinally.

flowers purple.

"chaguan Santa Maria"

"laha" for fodder

arching, "golondrina"

both leaves and roots

used medicinally to cure  
cuts.

erect herb "maigo lalo"

used medicinally, plant

boiled in water and

water drunk for dysentery.

bushy herb, flowers

yellow. "mongos paluma"

used medicinally;

seeds eaten by pigeons.

vine climbing into lower

branches of trees. "mika"

tubers eaten. used

medicinally for stomachache.



- 25383 *Tacca leontopodioides*  
cultivated (occurs both  
planted and wild)
- 84 *Hibiscus* -  
occasional
- 85 *Pachyrhizus erosus*  
cultivated
- 86 *Dioscorea alata*  
cultivated
- 87 *Dioscorea alata*  
cultivated
- 88 ~~Da~~ *Dioscorea alata*  
cultivated
- 89  
very common
- 90 *Urena lobata*  
common weed in waste places
- 91 *Polypodium scolopendrium*  
occasional

- "gab gab" tubers used  
for making starch for  
food for invalids  
(~~planted and~~)
- "kamang" plant soaked  
in water and ~~ex~~ mucil-  
aginous extract drunk  
for cooling effect by  
people ~~in~~ working in  
hot weather. also medicinal.
- vine, sterile. "hikamas"  
tubers eaten.
- vine, <sup>sterile</sup>, "dago agaga"  
(red yam). tuber eaten,  
scraped and made into  
pastry.
- vine, sterile; "dago haya"  
(pronounced haija), ~~not~~  
tuber eaten, one of best yams.
- sterile vine "dago apaca"  
root eaten.
- extensive vine  
"alamli" used as fodder.
- "dadangsi agaga"  
leaves and roots boiled  
and used medicinally.
- fronds erect from creeping  
rhizome. "kahalao"  
used medicinally.



25392 *Ficus tinctoria*~~Phyllanthus~~94 *Calophyllum inophyllum*  
scattered95 *Colocasia esculenta*  
cultivated in low place96 *Clerodendron*  
<sup>low</sup>  
in thickets97 *Thevetia peruviana*  
ornamental, semi-wild.98 *Colocasia esculenta*  
cultivated in low places

99

## Guam

small tree. "hoda" used  
medicinally to treat children  
with coated tongue and  
throat as in diphtheria.well-farmed tree  
"daog" or "palo maria"  
wood used for bull-cart  
wheel hubs and axles.  
One of toughest woods  
available. Often used for  
carving.petioles pale green  
"sumi pasencia" or  
white taro; leaves and  
~~corms~~ cooked and eaten.  
— semi-scandent shrub,  
"lodigan" boiled and  
water drunk to remedy  
fevers.— small dense tree,  
flowers bright yellow.  
petioles deep red-purple.  
"sumi agaga" or red taro  
mature leaves and  
corm eaten.— sterile clumps "mumutung  
~~palo~~ palawan" used  
medicinally (distinct from 25406,sharply  
aromatic



25400 *Averrhoa carambola* L.  
growing on edge of field, probably  
planted

01 *Mangifera indica*  
scattered in field

02 *Morinda citrifolia* L.  
very common

03 *Mucuna gigantea*  
common

04 *Heritiera littoralis*  
rare in low thicket

05 *Bryophyllum calycinum*  
common along roadside

06

small tree with  
red inflorescences of  
rose purple flowers with  
white edges; fruit with  
5 strong ribs. "belembines"  
fruit eaten.

— large dense tree "carabao  
mango" best of local  
mangos; fruit large,  
not fibrous. said to be  
propagated by seed and  
to come true.

— small tree, flowers  
white; "lada" leaves  
applied to ~~the~~ forehead  
to cure headache.

— vine, sterile. "gaye"  
used medicinally.

— shrub, sterile. "ufa"  
wood used for bull-cart  
hubs.

— erect, fleshy, sterile.  
"semperviva" medicinal.

— erect clumps, somewhat  
aromatic, "mumutung  
lake" not used  
(distinct from #25399,



25407 *Triphasia trifolia*  
forming dense thickets  
in fence rows, roadsides  
and all uncultivated places.

08 *Abrus precatorius*  
common in thickets

09 *Physalis lanceolata*  
weed in cultivated ground

10 *Cyclophorus*  
epiphytic on tree trunks

11 *Taeniophyllum*  
epiphytic on tree-trunks

12 *Muntingia calabura*  
common

deep tangles of very  
springy bushes, fruit  
dark red when ripe  
"limon de china" fruits  
eaten when ripe by children  
green fruits used for glue.  
(a serious pest, making  
walking very difficult  
of the trails).

— vine climbing in  
small trees, seeds  
scarlet with black  
end "kolales aniti"  
(Devil's beads) used  
for making necklaces.  
— flowers pale yellow.

"tomate kaputi"  
— fruit edible, used medicinally.  
fronds fleshy. "galak"  
(one of several plants of  
this name) leaves and  
roots, boiled, water  
taken for stomach ache.

— green roots flattened  
against tree trunk  
"gamsan" (octopus grass)  
used to cure pimples.

— tree 5 m. tall, flowers white,  
fruit pink, sweet "manzanita"  
series eaten.



- 25413 *Leucaena glauca*  
very abundant in thickets  
everywhere. used as fodder but
- 14 ~~*Trypsernium*~~ *Xanthosoma*  
cultivated and spontaneous  
in cultivated ground

- 15  
common in open places

- 16 *Pithecellobium dulce*  
very common

- 17 *Cestrum nocturnum*  
cultivated around church

small tree 4 m. tall,  
flowers white. "tagantangia"  
maher makes hair ball out, beans used for  
making necklaces and other ornaments.

leaves up to 1 m. or more  
high, bluish green,  
with a ~~stem~~ distinct  
angle between petiole  
and blade. "yautia"

tubers used for food, young  
leaves also, as green vegetable,  
older leaves boiled with  
coconut milk and fed to pigs.  
(generally believed to come  
from Hawaii)

"chaquan fai" (several  
grasses called this)  
used for fodder

tree 8 m. tall, spreading,  
rounded, dense, flowers white  
rare. "kamachili"  
fruit edible; cows and  
goats eat leaves; bark  
used for tanning, wood  
used for house foundations;  
sometimes planted for  
hedges.

shrub 4 m. tall, flowers  
greenish white, very  
fragrant at night.  
"dama de noche"



- 25418 *Cassia occidentalis*  
weed everywhere
- 19 *Stachytarpheta urticaria* (L.) Vahl  
weed in disturbed ground
- 20 *Lida acuta*  
weed in open places
- 21 *Acalypha indica* L.  
uncommon in open places
- 22 *Lynedrella nodiflora*  
common in disturbed ground

July 4 - hill between  
Merizo and Umataq  
~~near~~ south end of Guam  
eroded volcanic soil

- 23 *Cantharospermum scarabaeoides* (L.) Baill.  
very common
- 24 *Hyptis suaveolens* (L.) Poir.  
common
- 25 *Euphorbia*  
common

- herb 1.5 m. tall; flowers  
yellow "amo toмага  
carabao"
- herb 1 m. tall, flowers  
blue-violet "dadalag cat"  
"scobilla anako" (because  
of long leaves). used  
for brooms.
- "mumutong umai"
- flowers yellow  
"saigon" fodder only

- Twining vine with gray  
leaves yellow flowers;  
"kakaguates aniti"  
(devil's peanuts)  
leaves used medicinally.  
strongly aromatic.  
"mumutong" not used.  
when it grows vigorously  
it is thought to indicate fertility.  
erect, lactiferous, flowers  
white "golondrina".



25426 *Phyllanthus*  
common

July 6 - Comarianas, hills  
north of Mt. Tenjo and  
Mt. Alutom, Guam  
weedy disturbed places,  
largely thickets of *Leucaena*

27 *Pomoea triloba* L.  
climbing in thickets

28 *Bixa orellana*  
thicket

29 *Waltheria indica* L.  
edge of thicket

30 *Ageratum conyzoides* L.  
edge of weedy thicket.

31 *Indigofera suffruticosa* L.  
thickets

32 *Crotalaria quinquefolia* L.  
weedy roadside

33 ~~Leucaena~~ *Blumea sinuata*  
open weedy hilltop  
on bare ground.

34 *Desmodium triflorum*  
creeping on bare spots  
and among weeds, common.

35 *Heliotropium ovatifolium*  
common in disturbed places

many decumbent to  
ascending stems from  
a woody crown.

vine, flowers dull  
rose purple.

small tree 2 m. tall,  
fruit dry.

herb 1 m. tall,

flowers yellow.

aromatic, flowers white.

suffrutescent herbs 1.5 m.  
tall, flowers salmon pink.

flowers yellow, pods  
inflated.

flowers yellow.

prostrate, flowers  
purple.

plant grayish; flowers  
white.



25434

*Phyllanthus* <sup>amarus Schum. & Th.</sup> ~~reseri~~ det. G. L. Webster, 1955  
weed in disturbed places

37

*Sida acuta* L.  
weed in edges of thickets

38

*Cyperus*  
weedy places

Fundamentally Guam exhibits two main vegetation types correlated very well with the two types of substratum - raised coral limestone and volcanic tuff. The limestone in parts has weathered to produce a rather shallow red soil that is friable and apparently fertile. In most places where this is deep enough to be worked the forest has been cleared and the land planted to coconuts or other crops. In places where the soil is thinner or where the rough coral

erect

flowers orange-yellow.  
leaves variable in shape and size.

small spreading tufts and isolated culms.

is exposed a thick wet forest with many epiphytes forms a complete cover. This is largely Pandanus, Ochrosia, ~~Clatrydium~~ Guettarda, Premna, Elaeocarpus, 25301, Pipturus, and several species of Ficus, with Cycas, Clatrydium, Laportea, etc as smaller shrubs. This forest covers the northern portion of the island and occurs in the southern part wherever the volcanic material is covered by coral. This forest may be regarded as a modified strand forest, but more



mesophytic than that on Rota. It lacks the *Hernandia* and has more species of non-strand plants. This vegetation is probably what logically may be expected when typical strand vegetation is elevated over a period of many years. The conditions tend to become less and less halophytic as the ~~fresh~~ rain-water washes the salt and excess alkali out. The continual influx of propagules that always takes place produces more and more effect - more and more invaders find conditions to their liking and become established. A succession takes place, enormously slow, toward a mesophytic condition.

In such places as cliffs, cliff tops, forest is not so well supported and

other more pioneer species such as *Phyllanthus marianensis*, *Hedyotis foetidus*, *Bikbia*, etc. are found.

On the coastal plain, which is usually coral sand or slightly raised dissected coral, ~~but strand~~ or low muddy swamp land, true strand conditions prevail. The usual fringe of *Scaevola*, *Messerschmidia*, *Colubrina* <sup>*Casuarina*, a sterile grass,</sup> *Ipomoea per-capuae*, *Wedelia*, *Cassytha*, etc. lines the sandy portions. The rocky parts have *Pemphis acidula* very abundant with *Scaevola*, *Callicarpa*, *Hedyotis albido punctata*, *Fimbristylis cymosa*, etc. Out on the reef flats in shallow salt water are two seagrasses, 25322, 25323 very abundantly.



The low muddy areas have *Bruguiera* <sup>*clerodendron*</sup> and *Rhizophora*, with *Thespesia*, and *Casuarina* around the edges. The land back of the beach supports a forest of *Hibiscus tiliaceus*, *Thespesia*, *Hernandia*, *Intsia bijuga*, *Guetlandia*, *Pithecellobium dulce*, *Clerodendron*, *Casuarina*, *Cocos nucifera*, *Morinda citrifolia*, *Pandanus tectorius*, *Clerodendron*, etc. This has in most places, especially where wet, been disturbed so much that it is hard to tell if any is really primary strand forest.

This whole coastal shelf seems to be a few feet ~~of~~ above sea level, and is being gradually cut down, as evidenced by the remnants of raised reef left here and there. The cutting may well have been

reduced now to that by solution and subaerial erosion because of the development of a fringing reef.

Much of the subsistence agriculture of Guam is on this coastal shelf. Coconuts are abundant, as are breadfruit, yams. Mangoes grow spontaneously. Hogs and cattle and chickens are ~~so~~ apparently common normally, though rare now.

In all disturbed areas, of course, weeds are enormously common. The most prominent is *Leucaena glauca* which forms thickets everywhere and tends to develop into a thick small forest. *Triphasia trifolia* runs it a close second, forming impenetrable tangles everywhere.



1946

## Marianas Is.

*Carica papaya* has developed a small-fruited variety which has truly become a ubiquitous weed, especially on disturbed limestone areas.

## Guam

One of the most distinctive vegetation types is that of the areas of volcanic exposure. It is essentially a grassland which seems to be an early successional stage. The dominant plant is *Miscanthus japonicus*, which forms dense brakes over much of the area. This is frequently burned off and erosion scars are a characteristic feature, in various stages of recovery. On these, and on ridges, rock outcrops, and other places where the sword grass is either absent or sparse, there is a flora similar to that of the volcanic regions of Rota and Iaijan, but much richer in species. Several species of *Fimbristylis*, *Heteropogon*, several other grasses, *Gleichenia linearis*, *Lycopodium cornutum*, *Pteris* sp., *Blechnum* sp., *Lygodium scandens*,



2 sp. of *Phyllanthus*

~~form~~ form the herbaceous  
cover. ~~sp.~~ *Bidens* (*glossagyna*)  
sp. is rare in rock crevices.

Prominent shrubs are a  
melastome, *Wikstroemia*,  
a tiny-leaved myrtaceous  
plant, *Glochidion* sp.,  
*Geniostoma*, *Dodonaea* (rare),



164

165



with July 10 Fasserai Islet  
 around village in  
 coconut plantation  
 25439 *Centella asiatica* (L.) Urb.

40 *Vernonia cinerea* (L.) Less.  
 common

41 *Hibiscus tiliaceus* L.  
 thicket

42 *Eugenia*  
 small grove

43 *Premna* <sup>*obtusifolia* R. Br.</sup>  
~~*corymbosa*~~  
 scattered

44 *Ocimum basilicum* L.  
 around houses

45 *Tacca leontopodioides* (L.) O.K.  
 common everywhere

soil sandy, even on  
 outer beach

prostrate forming  
 patches "pengapem"  
 flowers purplish

spreading tree "bulifin"  
 fiber of inner bark  
 used for making  
 "grass" skirts and woven  
 wrap-arounds for women.

tree 15 m. tall, buds  
 and fruits few. ~~but~~  
 fruit fleshy rather  
 tasteless, greenish white,  
 seed free from pulp  
 "haravath" fruit eaten.

small tree, flowers  
 pale green, aromatic.

"yar"  
 very aromatic, ~~fl~~ bracts  
 and calyxes purplish  
 corolla white "warming"  
 erect acaulescent herb,

"mogmog" some say  
 tuber is eaten, others say not.



25446

Citrus

in village

14

47

*Zoysia matrella* (L.) Merr.  
planted around houses  
forming small patches of lawn

~~July 11 same~~

2

48

*Alocasia macrorhiza* (L.) Schott  
everywhere around village

July 11 - same, outside  
of village.

7

49

*Euphorbia chamissonis* Binn.  
common in open ground  
under coconuts

5

50

*Lepturus repens* var. *cinerascens*  
open ground under coconuts

5

51

*Fimbristylis cymosa* R.Br.  
common

5

52

*Suriana maritima* L.  
common on outer beach  
on sand

4

53

*Pemphis acidula* Forst.  
common on outer beach on sand

small aromatic tree,  
odor of lemon oil

"huru huru marets"

dense turf. "favit"  
said to have been brought  
by Japanese from Peleliu

stem 4 dm. tall, mature  
spathe appendage  
pendent. "bele" rhizome  
said to be eaten.

prostrate, lactiferous,  
leaves white beneath,  
flowers green.

"marbuleng"

(Burch) Fosb.

prostrate, not at all  
tufted, forming a thin  
mat. "fithel"  
tufts: "bogar"

shrub up to 3 m. tall,  
tree-like, flowers yellow  
"wan"

small trees up to 6 m. tall  
flowers white "hanggi"



- 25454 *Calophyllum inophyllum* L.  
common generally
- 55 *Hernandia sonna* L.  
rare on outer beach
- 56 *Wedelia biflora* (L.) DC.  
common near ~~outer~~ <sup>inner</sup> beach
- 57 *Scaevola frutescens* (Mill.) Kr.  
~~common~~ occasional on outer beach.
- 58 *Canavalia* <sup>cathartica Thunberg</sup> *microcarpa* (L.) Piper  
common on outer beach
- 59 *Vigna marina* (Burm.) Merr.  
common
- 60 *Cassytha filiformis* L.  
occasional, parasitic  
on various plants,  
especially *Wedelia*
- 61 *Pandanus tectorius* Park.  
common
- 62 *Terminalia litoralis* Lam.  
(with H. Townes)
- 63 *Triumfetta procumbens* Forst.  
sandy beach

- Tree 5 m. tall (others  
up to 10 m.), sterile.  
"fitch"
- sterile shrub 3 m. tall  
"hochoul"
- prostrate, branches  
ascending, flowers yellow.  
"yath yuth"
- shrub, 1 m. tall,  
flowers white. "luthi"
- wine climbing in  
trees, fruits on dead  
vines. "holu"
- prostrate, peduncles  
erect, flowers yellow. "holu"
- green leafless vine,  
flowers white. "uluhi"
- tree 6 m. tall; fruits  
yellow, fragrant,  
edible. "fats"
- tree 3 m. tall, flowers  
white, fruit somewhat  
immature, slightly beaked.  
"kil"
- prostrate, sterile.  
"harah"



25464

*Canavalia microcarpa* (L.) Piper  
 (with H. Townes)

65

*Guetlunda speciosa* L.  
 outer beach, occasional

66

*Barringtonia asiatica* (L.) Kurz  
 (with H. Macmillan)

67

*Ficus tinctoria* Forst f.  
 occasional

vine, sterile "holu"

Used medicinally for stomach.  
 tree 6 m. tall; flowers  
 white, fragrant. "yuth"  
 large tree, ~~flowers~~ flowers  
~~and fruit~~ on ground  
 beneath it, stamens  
 rose-pink distally petals  
 white; "huel" trunk  
 used ~~in~~ to make canoes,  
 fruits not used to  
 poison fish.

slender tree 4 m. tall,  
 fruit orange yellow  
 "hawal" fruit eaten.



with  
Hyl. Wong

July 11 - Mogmog Islet  
gravelly substratum  
with a line of ~~coral~~  
broken coral at outer beach  
flat, planted to coconuts  
except large marsh  
in center planted to  
*Cyrtosperma*, this  
filled with much.

25469 *Ochrosia oppositifolia* (Lam.) K. Schum.  
rare

69 *Allophyllus*  
rare

70 *Guettarda speciosa* L.  
common

71 *Melochia*  
occasional on outer beach  
on flat that apparently  
has been cleared.

72 *Vigna marina* (Burm.) Merr.  
common ~~on~~ on open  
flats near channel beach

73 *Pipturus argenteus*  
~~common~~ abundant  
on flats near  
channel and outer beaches  
seedling over whole  
island.

slender tree 4 m. tall,  
flowers white; fruits  
green, old ones picked  
up under tree.

— slender tree 4 m. tall,  
flowers white.

— small tree, ripe  
fruit white, fleshy.  
— shrub, 1 m. tall,  
flowers pink, much  
darker in center.

prostrate, flowers  
yellow.

shrub 1.5 m. tall,  
~~fruit~~ on, flowers greenish



- 25474 *Triumfetta procumbens* Forst f.  
abundant on beaches
- 5 75 *Wedelia biflora* (L.) DC.  
common on beaches  
and in edges of forest
- 7 76 *Pipturus argenteus*  
abundant on <sup>open</sup> flats  
near channel and outer  
beaches, seedlings  
over whole island.
- 7 77 *Terminalia litoralis* Seem.  
rare on open flats
- 9 78 *Canavalia* <sup>cathartica Thouars</sup> ~~microcarpa~~ (DC.) Piper  
abundant in patches  
of forest near outer beach
- 6 79 *Ficus*  
common near outer beach
- 5 80 *Asplenium nidus*  
occasional in patches of  
forest
- 5 81 *Nephrolepis biserrata*  
occasional in forest and  
around bases of coconuts
- 5 82 *Clatostema*  
common locally in  
patches of forest on broken coral

- prostrate, extensive;  
flowers yellow.
- prostrate with  
ascending branches,  
strong resinous odor  
when broken; flowers  
yellow.
- shrub 1.5 m. tall,  
fruits fleshy, white  
achenes superficial.
- shrub 1.5 m. tall,  
fruits immature  
somewhat flattened.  
vine climbing in  
trees; flowers rose purple.  
fruits on dry vines.
- banyan type fig,  
1.5 m. tall, figs green.  
rosette, leaves  
ascending.
- leaves ascending
- stems very fleshy;  
large leaved plants  
in shade, small in open.



- 25493 *Morinda citrifolia* L.  
occasional
- 84 *Ficus tinctoria* Forst f.  
common
- 85 *Canva*  
occasional in *Cyrtosperma* marsh
- 86 *Achyranthes aspera* L.  
occasional in open  
under coconuts
- 87 *Cyperus*  
common around edges  
of marsh just above  
wet ground
- 88 *Ceratopteris*  
in much of marsh in <sup>water</sup> channels  
~~between~~ *Cyrtosperma* plants.
- 89 *Artocarpus altilis* (Park.) Forst.  
common
- 90 *Artocarpus*  
common
- 91 *Portulaca* <sup>*samoensis* W. W. Schott</sup> ~~*quadricifida*~~  
common, especially  
near dwellings
- 92 *Alocasia macrorrhiza* (L.) Schott  
very common, especially  
around village

- small tree 4 m. tall,  
flowers white.
- shrub 2 m. tall,  
ripe fruit orange-yellow.
- erect, 2 m. tall; leaves  
purplish green,  
flowers ~~red~~ scarlet.
- erect herb, up to  
1 m. tall, flowers  
pink within anthesis.
- small tufts
- stipes very weak,  
fronds strongly dimorphic.
- tree 20 m. tall.  
fruit eaten
- tree 15 m. tall  
fruit eaten, also by bats.
- plant fleshy,  
flowers yellow.
- plant 1.5 m. tall, stem  
0.5 m. tall; spathe  
appendage bronze-purple,  
pendent.



- 25493 *Ipomoea pes-caprae*  
open flat back of <sup>channel</sup> beach
- 94 *Suaeda maritima*  
open flat back of  
channel beach.
- 95 *Carica papaya*  
common everywhere
- 96 *Euphorbia Chamissonis* B.S.P.  
common on gravel ridge  
back of outer beach and  
on gravel flat.
- 97 *Euphorbia thymifolia*  
common, especially around  
dwellings
- 98 *Echinochloa*  
one plant seen
- 99 *Phyllanthus*  
rare in edges of patches  
of forest
- 25500 *Echinochloa*  
common locally
- 01 *Paspalum conjugatum* Berg.  
rare in ~~edges of patches~~  
~~forest~~ openings
- 02 *Fimbristylis cymosa* R.Br.  
common
- 03 *Acalypha*  
occasional in open under  
coconuts

- ~~open fls~~ prostrate,  
4-5 m. long, lactiferous;  
flower purple.  
shrub 3 m. tall,  
flowers yellow.
- tree 4 m. tall, lactiferous  
flowers cream white.
- prostrate, leaves  
white beneath; flowers  
greenish.
- plant prostrate, ~~f~~  
forming a mat,  
purplish.
- erect
- culms ascending
- rooting at nodes
- dense tufts
- flowers green



- 25504 *Thunbergia involucrata* (Forst f.) R. & S.  
occasional
- 05 *Eleusine indica* (L.) Gaertn.  
common
- 06 *Colocasia esculenta* (L.) Schott  
~~occ~~ cultivated in marsh
- 07 *Cyrtosperma chamissonis* (Schott) Mun.  
cultivated in marsh  
*Cyrtosperma merkusii* (Hassk.) Schott  
det D. H. N. 6/1998
- 08 ~~*Tagetes*~~ *Tagetisoma*  
cultivated on dry ground
- 09 *Euphorbia hirta* L.  
weed around bases of  
coconuts
- 10 *Phyllanthus niruri* L.  
common
- 11 *Vernonia cinerea* (L.) Less.  
common
- 12 *Crataeva speciosa* Volk.  
common, planted
- 13 *Cucurbita*  
common, planted
- 15 *Blechnum* ~~*pyramidalatum*~~ <sup>*brownii*</sup>  
occasional, local
- 16 *Eclipta alba* (L.) Hassk.  
occasional near marsh
- 14 *Oplismenus compositus* (L.) Beauv.

prostrate, forming a  
loose mat.

leaf dull above,  
petiole green. corm eaten.  
plants more or less  
acaulescent, leaves  
up to 2 m. tall,  
petioles more or less  
prickly. rhizome eaten

prostrate

erect

flowers purplish

small tree, fruit  
eaten.

prostrate, flowers  
deep yellow; fruit  
a crook-neck.

prostrate to ascending



25517 *Flourensia ruderalis* Gaud.  
common

5 18 *Paspalum*  
common locally near marsh

3 \*19 *Cyperus brevifolius*  
occasional

6 20 *Polypodium scolopendrium*  
common, especially  
on bases of trees

3 21 *Portulaca oleracea* L.  
common ~~in open~~ disturbed  
places

2 22 *Ipomoea batatas* L.  
cultivated extensively

5 23 *Eragrostis amabilis* (L.) W. & A.  
common ~~is~~

2 24 *Pilea microphylla* (L.) Liebm.  
common locally

5 25 *Hedyotis biflora*  
abundant in open  
places and under coconuts

4 26 *Ocimum sanctum* L.  
doveyard

5 \*19a *Jussiaea suffruticosa* Miq.

stem fleshy, reddish;  
does not sting.  
culms spreading - ascending

heads green

fronds erect,  
rhizome extensively  
creeping.

plant fleshy,  
purplish green.

prostrate, root eaten  
"camote"

spreading tufts

prostrate, fleshy

prostrate; flowers  
white, corolla tube  
swollen

very aromatic  
flowers white

flowers yellow



186

187



- 1 *Ixora coccinea*  
"acheu"
- 2 *Polyscias grandifolia* Rolz.  
"achenecha" Wöna (Moen)
- 3 *Crotalaria mucronata* Desv.  
"afalafal"
- 4 *Glochidion*  
"afor"
- 5 *Curcuma*  
"äfän"
- 6 *Parinarium glaberrimum*  
"ais"
- 7 *Parinarium glaberrimum*  
"eis" (ais) Tol
- 8 *Hernandia ovigera*  
"akurang"
- 9 *Cordia subcordata*  
"alau" Toloas (Dublon)
- 10 *Cordia subcordata*  
"anö" Tol "alau" Moen
- 11 *Messerschmidia argentea*  
"amalaset" Wöna (Moen)
- 12 *Nephrolepis*  
"omare" Wöna (Moen)
- 13 *Messerschmidia argentea*  
"amalaset"
- 14 *Cyperus javanicus*  
"amala" "emele"
- 15 *Nephrolepis*  
"amare"

- 16 *Glochidion*  
"amoses" Wöna (Moen)
- 17 *Glechoma linearis*  
"onecha"
- 18  
"ano" Wöna (Moen)
- 19 *Acrostichum aureum*  
"opössen" (Ton)
- 20 *Acrostichum aureum*  
"apasou"
- 21 *Eugenia*  
"äpel" Tol
- 22  
"äpö" Wöna (Moen), "sotein ana", "soteian sät"
- 23  
"apuap"
- 24  
"apuap"
- 25 *Clerodendron inerme*  
"apuech", "ulo"
- 26 *Ficus tinctoria* var. *neo-eludorum* (Summ.) Forst.  
"ouol", "apuilis" fruits are eaten
- 27 *Cassia alata*  
"arakak" Tou (Tol)
- 28 *Terminalia catappa*  
"asas"
- 29 *Miscanthus floridulus*  
"asat"
- 30 *Randia carolinensis* (Val.)  
"Asepot" Tol, asepar Moen



- 1 31 *Wedelia biflora*  
"atua t"
- 1 32 *Wedelia biflora*  
"atua t"
- 3 33 *Jussiaea suffruticosa* L.  
"aunenipuin" Wöna (Moen)
- 1 34 *Eroecaria agallocha*  
"ansus" Maagrove
- 1 35 *Ficus tinctoria* var. *neo-eludorum* (Summ.) Forb.  
"maek" Moen, "awöl" Tou (Tol)
- 3 36 *Psychotria carolinensis*  
Chemei
- 3 37 *Psychotria carolinensis* (Vahl) Forb.  
"Chemei" Wöna (Moen)
- 1 38 *Solanum*  
"chi" yellow fruit apples
- 2 39 *Polypodium scolopendria*  
"Chichi"
- 2 40 *Colocasia esculenta*  
"chimök" Tou (Tol)
- 2 41 *Colocasia esculenta*  
"Chimok" Moen
- 6 42 *Randia carolinensis*  
"chiomis" - Toloas (Dublon)
- 2 43 *Pittosporum*  
"eirenges" Tol, "Oneput" Moen; small white flowers
- 1 44 *Ipomoea digitata*  
"emechimech" Tol; mechi mech Moen
- 2 45 *Glochidion*  
"emoses"

- 4 46 *Pemphis acidula*  
engi Wöna (Moen)
- 1 47 *Piper*  
"Ennes"
- 3 48 *Piper*  
"Ennes" Wöna (Moen)
- 1 49 *Dioscorea*  
"ep" Wöna (Moen)
- 1 50 *Clerodendron inerme*

Check on these native

names

53

60

77

112

Duplicating number

62-

one is registered in  
the # book the other  
is *Cyperus*

en)

(Moen)

- 1 51 *Pemphis acidula*  
engi Wöna (Moen)
- 1 52 *Piper*  
"Ennes"
- 3 53 *Piper*  
"Ennes" Wöna (Moen)
- 1 54 *Dioscorea*  
"ep" Wöna (Moen)
- 1 55 *Clerodendron inerme*
- 2 56 *Jussiaea suffruticosa*  
"likainenpal" Tou (Tol)
- 1 57 *Caesalpinia bonduc* (L.) Roxb.  
"liko ioio" Tou (Tol)



Check on these native  
names

53

60

77

112

Duplicating number

62-

one is registered in  
the # book the other  
is Cyperus



- 1 31 *Wedelia biflora*  
"atua"t"
- 1 32 *Wedelia biflora*  
"atua"t"
- 3 33 *Jussiaea suffruticosa* L.  
"aunenipuin" Wöna (Moen)
- 1 34 *Excoecaria agallocha*  
"ansus" Mangrove
- 1 35 *Ficus tinctoria* var. *neo-chudamum* (Burm.) Forb.  
"mauk" Moen, "awöl" Tou (Tol)
- 3 36 *Psychotria carolinensis*  
chemei
- 3 37 *Psychotria carolinensis* (Vahl) Forb.  
"chemei" Wöna (Moen)
- 1 38 *Solanum*  
"chi" yellow fruit apples
- 2 39 *Polypodium scolopendria*  
"chichi"
- 2 40 *Colocasia esculenta*  
"chimök" Tou (Tol)
- 2 41 *Colocasia esculenta*  
"chimok" Moen
- 6 42 *Randia carolinensis*  
"chömis" - Toloas (Dublon)
- 2 43 *Pithecolitium*  
"pitenges" Tol, "oneput" Moen; small white flowers
- 1 44 *Ipomoea digitata*  
"emechimech" Tol; mechimech Moen
- 2 45 *Glochidion*  
"emoses"

- 4 46 *Pemphis acidula*  
engi Wöna (Moen)
- 1 47 *Piper*  
"Ennes"
- 3 48 *Piper*  
"Ennes" Wöna (Moen)
- 1 49 *Dioscorea*  
"ep" Wöna (Moen)
- 1 50 *Clerodendron inerme*  
pucherik (west), etin (ost)
- 1 51 *Eugenia*  
"fan"
- 1 52 *Zingiber*  
"tunan" Tou (Tol) "futun" Moen
- 1 53 *Pteris*  
"immerin" enffaiton
- 2 54 *Procris pendunculata*  
"kimuit" Tou (Tol)
- 2 55 *Gossypium*  
"Koton en Japan Wöna (Moen)
- 2 56 *Gossypium*  
"Koton en Japan" Wöna (Moen)
- 1 57 *Curcuma*  
"kuchan(g)" (flowers in doz.?)
- 3 58 *Barringtonia asiatica*  
"kun"
- 3 59 *Jussiaea suffruticosa*  
"likainengal" Tou (Tol)
- 1 60 *Caesalpinia bonduc* (L.) Roxb.  
"liko ioio" Tou (Tol)



- 1 61 *Hibiscus moschatus*  
"likonokan" - Tou (Tol)
- 1 62 ~~Solanum~~ *Solanum amara*  
"Maras" - Moen "pwānu" - Tol
- 3 63 *Ficus tinctoria* var. *neo-cludanum* (Burm.) Forb.  
Mauk - "Wōna" (Moen)
- 2 64 *Davallia solida*  
"mechenkatu"
- 1 65 *Ipomoea digitata*  
mechimoch (Ost) emechimoch (West)
- 1 66 *Vitex negundo*  
"Mougif"
- 2 67 *Pisonia grandis*  
"mök" Wōna (Moen)
- 2 68 *Amorphophallus*  
"Moku fen"
- 2 69 *Euphorbia hirta*  
"kichich" - Tol, Moreniap - Moen
- 2 70 *Kleinovia hospita*  
monou Wōna (Moen)
- 1 71 *Luffa cylindrica*  
"mororof" - Tol, Moen
- 5 72 *Guethardia speciosa*  
"mosor" Wōna (Moen)
- 1 73 *Allophylus*  
"Ngo" - Wōna (Moen)
- 1 74 *Allophylus*  
"Ngo" - Tou (Tol)
- 2 75  
"Nika chopu chop" Wōna (Moen); Grows on Mai, Kuz, Vākich

- 1 76 *Cassia*  
"Nikamau"
- 1 77 *Scleria*  
"Nika unau" - Wōna (Moen) "Nika safasap" - Tou (Tol)
- 2 78 *Morinda citrifolia*  
"Nopur"
- 2 79 *Morinda citrifolia*  
"Nupur" - Moen, "Atin" - Tou (Tol)
- 15 80 *Cynometra*  
"ōmō"
- 2 81 *Cynometra*  
"ōmō" Toloas (Dublon)
- 2 82 *Bruguiera conjugata*  
"ong"
- 2 83 *Curcuma*  
"ōngin"
- 1 84 *Ageratum conyzoides*  
"opōnu pōn" - Tou (Tol)
- 3 85 *Piper*  
"ōtik" Wōna (Moen)
- 2 86 *Fagraea*  
"ō-ur", sō-ur Moen
- 1 87 *Fagraea*  
"ōur", ā-ur Tol, sō-ur Moen
- 1 88 *Erythrina*  
"par" Tou (Tol)
- 2 89 *Erythrina*  
"par"
- 1 90  
"pula pul", Penikap - Moen



- 1 91 *Thespesia populnea*  
"pöllö"
- 1 92 *Thespesia populnea*  
"pöllö"
- 2 93 *Cytosperma*  
"pula" Tou (Tol)
- 1 94 *Xylocarpus*  
"puroperu" (Ton)
- 1 95 *Calophyllum inophyllum*  
"täkich" Wöna (Moen)
- 3 96 *Sonneratia caseolaris* alba  
"saras" Tou (Tol)
- 1 97 *Sonneratia caseolaris* alba  
"saras"
- 1 98 *Hedycheum coronarium*  
"sinzeri" "sinsei"
- 1 99 *Sida acuta*  
"siomen" Tou (Tol)
- 4 100 *Barringtonia racemosa*  
"son" Tou (Tol)
- 2 101 *Hibiscus moschatos*  
"sötumo" Wöna (Moen)
- 2 102 *Fagraea*  
"sour" Uman
- 1 103 *Cordyline terminalis* (L.)  
"tinechol" Tou (Tol)
- 2 104 *Cordyline terminalis*  
"tinepor" Tou (Tol)
- 2 105 *Celosia argentea*  
"tolen chako"; Uman Is

- 2 106 *Hedycheum coronarium*  
"tunun en won"; introduced
- 5 107 *Commersonia bartramia*  
"tupuchol" Tol
- 2 108 *Macaranga*  
"tupunu wol" Tou (Tol)
- 1 109 *Premna integrifolia* <sup>obtusifolia R.Br. (obtusifolia)</sup> ~~corymbosa~~  
"umukau" Tou (Tol)
- 1 110 *Premna integrifolia* <sup>obtusifolia</sup> ~~corymbosa~~ (obtusifolia)  
"umukau" Wöna (Moen)
- 3 111 *Premna integrifolia* " " "  
"umukau" Wöna (Moen) Tonaachau
- 3 112 *Eugenia*  
"iöllungit"
- 1 113 *Schefflera*  
"ütüsa" Tou (Tol)
- 3 114 ~~Celastrum~~ *Ocimum*  
"warung"
- 2 115 *Lumnitzera littorea*  
"wei" Wöna (Moen)
- 1 116 *Ochracarpus*  
"wengu" Tou (Tol)
- 3 117 *Hibiscus schizopetalus*  
no native name, introduced Wöna (Moen)
- 1 118 *Lycopodium-cernuum*  
Sova did not know the name; Grows only on mts. in clearing
- 3 119  
"ochrap kinian" ~~Ton~~ Ton (Tol)



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